Therefore, embodiments of the present invention provide a novel and improved information processing device, content requesting method, and computer program in which maintenance is enabled by avoiding an increase in an amount of the meta information when a device is remotely controlled by a client using the ABS technique.

Solution to Problem

[0009]

Disclosed herein is an information processing device including: a storage unit configured to store a predetermined definition for adding a parameter to access information for accessing each of a plurality of subsegments constituting each piece of encoded data obtained by encoding same content at a different bit rate, or for accessing every element to be acquired through a request to a server described in an MPD; and a communication unit configured to access an address defined in the access information by designating a parameter based on the predetermined definition stored in the storage unit. The address defined in the access information is an address for controlling a device which images the content.

According to a first aspect of the present information, there is provided an information processing device comprising circuitry configured to: receive definition information including a definition for adding a URL parameter to a URL, the URL parameter being described in a Media Presentation Description by an attribute to access each of a plurality of subsegments constituting each piece of encoded data obtained by encoding same content at a different bit rate; generate the URL to which the URL parameter is added, based on the received definition information; and initiate transmission of a request for the subsegment based on the generated URL.

[0010]

Disclosed herein is a content requesting method including: storing a predetermined definition for adding a parameter to access information for accessing each of a plurality of subsegments constituting each piece of encoded data obtained by encoding same content at a different bit rate, or for accessing every element to be acquired through a request to a server described in an MPD; and designating a parameter based on the predetermined definition stored in the storage unit and accessing an address defined in the access information. The address defined in the access information is an address for controlling a device which images the content.

According to a second aspect of the present information, there is provided a content requesting method comprising: receiving definition information including a definition for adding a URL parameter to a URL, the URL parameter being described in a Media Presentation Description by an attribute to access each of a plurality of subsegments constituting each piece of encoded data obtained by encoding same content at a different bit rate; generating the URL to which the URL parameter is added, based on the received

definition information; and initiating transmission of a request for the subsegment based on the generated URL.

[0011]

Disclosed herein is a computer program causing a computer to execute: storing a predetermined definition for adding a parameter to access information for accessing each of a plurality of subsegments constituting each piece of encoded data obtained by encoding same content at a different bit rate, or for accessing every element to be acquired through a request to a server described in an MPD; and designating a parameter based on the predetermined definition stored in the storage unit and accessing an address defined in the access information. The address defined in the access information is an address for controlling a device which images the content.

According to a third aspect of the present information, there is provided a computer program causing a computer to execute the above method.

Advantageous Effects of Invention

[0012]

According to the aspects described above, a novel and improved information processing device, content requesting method, and computer program in which maintenance is enabled by avoiding an increase in an amount of the meta information when a device is remotely controlled by a client using the ABS technique can be provided.

Brief Description of Drawings

[0013]

[FIG. 1] FIG. 1 is a descriptive diagram illustrating a configuration of a content reproduction system according to an embodiment of the present disclosure.

[FIG. 2] FIG. 2 is a descriptive diagram illustrating a data flow in a content reproduction system according to the present embodiment.

[FIG. 3] FIG. 3 is a descriptive diagram illustrating a concrete example of an MPD.

[FIG. 4] FIG. 4 is a functional block diagram illustrating a configuration of a content server 10 according to the present embodiment.

[FIG. 5] FIG. 5 is a functional block diagram illustrating a configuration of a content reproduction device 20 according to the present embodiment.

[FIG. 6] FIG. 6 is a functional block diagram illustrating a configuration of a content server 13 according to the present embodiment.

[FIG. 7] FIG. 7 is a descriptive diagram showing the content of a parameter description.

CLAIMS

1. An information processing device comprising circuitry configured to:

receive definition information including a definition for adding a URL parameter to a URL, the URL parameter being described in a Media Presentation Description by an attribute to access each of a plurality of subsegments constituting each piece of encoded data obtained by encoding same content at a different bit rate;

generate the URL to which the URL parameter is added, based on the received definition information; and

initiate transmission of a request for the subsegment based on the generated URL.

2. The information processing device according to claim 1, wherein the Media Presentation Description is received from a content server via HTTP .

3. The information processing device according to any preceding claim, wherein

in response to receiving a Media Presentation Description without the attribute, the circuitry is further configured to make a request to a content server for the Media Presentation Description with the attribute included.

4. The information processing device according to claim 1, wherein

the subsegment is received from a content server via HTTP.

5. The information processing device according to claim 1, wherein

the circuitry is configured to reproduce the subsegment.

6. A content requesting method comprising:

receiving definition information including a definition for adding a URL parameter to a URL, the URL parameter being described in a Media Presentation Description by an attribute to access each of a plurality of subsegments constituting each piece of encoded data obtained by encoding same content at a different bit rate;

generating the URL to which the URL parameter is added, based on the received definition information; and

initiating transmission of a request for the subsegment based on the generated URL.

7. A computer program causing a computer to execute a method according to claim 6.