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]

~~According to a first aspect of the present invention, there is provided~~ 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 invention, there is provided an information processing device comprising circuitry configured to receive a Media Presentation Description (MPD) including a scheme of a Uniform Resource Locator (URL) parameter for adding the URL parameter to a URL for accessing each of a plurality of segments of encoded data obtained by encoding a same content at a different bit rate; generate the URL, to which the URL parameter is added, based on the received MPD; and initiate transmission of a request for the segment based on the generated URL.

[0010]

~~According to a second aspect of the present invention, there is provided~~ 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 invention, there is provided an information processing method, implemented via at least one processor, and comprising receiving a Media Presentation Description (MPD) including a scheme of a Uniform Resource Locator (URL) parameter for adding the URL parameter to a URL for accessing each of a plurality of segments of encoded data obtained by encoding a same content at a different bit rate; generating the URL, to which the URL parameter is added, based on the received MPD; and transmitting a request for the segment based on the generated URL.

[0011]

~~According to a third aspect of the present invention,, there is provided~~ 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 invention, there is provided a non-transitory computer-readable medium having embodied thereon a program, which when executed by a computer causes the computer to execute a method, the method comprising receiving a Media Presentation Description (MPD) including a scheme of a Uniform Resource Locator (URL) parameter for adding the URL parameter to a URL for accessing each of a plurality of segments of encoded data obtained by encoding a same content at a different bit rate; generating the URL, to which the URL parameter is added, based on the received MPD; and transmitting a request for the segment based on the generated URL.

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

Claim 1

An information processing device comprising:

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,

wherein the address defined in the access information is an address for controlling a device which images the content.

Claim 2

A content requesting method comprising:

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,

wherein the address defined in the access information is an address for controlling a device which images the content.

Claim 3

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,

wherein the address defined in the access information is an address for controlling a device which images the content.

CLAIMS

1. An information processing device comprising:

circuitry configured to:

receive a Media Presentation Description (MPD) including a scheme of a Uniform Resource Locator (URL) parameter for adding the URL parameter to a URL for accessing each of a plurality of segments of encoded data obtained by encoding a same content at a different bit rate;

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

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

2. The information processing device according to claim 1, wherein the MPD is received from a server in response to a request made to the server for the MPD, in accordance with Hypertext Transfer Protocol (HTTP).

3. The information processing device according to claim 1, wherein, when the MPD as initially acquired does not contain the scheme of the URL parameter, the circuitry is further configured to make a request to a server for the MPD with the scheme of the URL parameter included.

4. The information processing device according to claim 1, wherein the circuitry is further configured to make the request, to a server, for the segment in accordance with Hypertext Transfer Protocol (HTTP).

5. The information processing device according to claim 4, wherein the segment is received from the server in response to the made request to the server for the segment.

6. The information processing device according to claim 5, wherein the circuitry is further configured to reproduce the received segment.

7. An information processing method, implemented via at least one processor, and comprising:

receiving a Media Presentation Description (MPD) including a scheme of a Uniform Resource Locator (URL) parameter for adding the URL parameter to a URL for accessing each of a plurality of segments of encoded data obtained by encoding a same content at a different bit rate;

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

transmitting a request for the segment based on the generated URL.

8. A non-transitory computer-readable medium having embodied thereon a program, which when executed by a computer causes the computer to execute a method, the method comprising:

receiving a Media Presentation Description (MPD) including a scheme of a Uniform Resource Locator (URL) parameter for adding the URL parameter to a URL for accessing each of a plurality of segments of encoded data obtained by encoding a same content at a different bit rate;

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

transmitting a request for the segment based on the generated URL.