WHAT IS CLAIMED IS:

1. A method for providing video content in a Dynamic Adaptive Streaming over Hypertext Transfer Protocol (DASH) streaming session, the method performed by at least one processor, and comprising:

obtaining a pre-session-based description (PreSBD) information of the DASH streaming session from a PreSBD descriptor, the PreSBD information instructing a PreSBD client to generate customized session-based description (SBD) document uniform resource locator (URL) for a plurality of SBD descriptors of the DASH streaming session, and the PreSBD descriptor being separate from the plurality of SBD descriptors;

instantiating the PreSBD client and passing PreSBD descriptor information, wherein the PreSBD client is instantiated prior to instantiating any SBD descriptor among the plurality of SBD descriptors;

controlling generation of a customized SBD document URL associated with a first SBD descriptor from the plurality of SBD descriptors of the DASH streaming session; and

launching a first SBD client associated with the first SBD descriptor based on the customized SBD document URL and passing the first SBD descriptor to the first SBD client, wherein the first SBD client is among the plurality of SBD descriptors.

2. The method of claim 1, further comprising:

controlling generation of a segment uniform resource locator (URL) based on the first SBD descriptor and the customized SBD document URL, and processing a request for a segment of the video content by at least modifying the segment URL; and

providing the segment of the video content based on the modified segment URL.

3. The method of claim 1, wherein the plurality of SBD descriptors of the DASH streaming session comprises SBD descriptors in a same media presentation description (MPD) element with the PreSBD descriptor information or the SBD descriptors in a lower-level MPD element than the MPD element with the PreSBD descriptor information.

4. The method of claim 1, wherein the PreSBD descriptor information comprises a @urlclass attribute with a value “sbd”.

5. The method of claim 1, wherein the PreSBD descriptor information includes a type of hypertext transfer protocol (HTTP) get request that is subject to customized SBD document URL generation.

6. The method of claim 1, wherein no more than one PreSBD descriptor information is present in a media presentation description (MPD) element.

7. The method of claim 1, wherein the PreSBD descriptor information is absent in a lower-level element of a media presentation description (MPD) element than with the PreSBD descriptor information.

8. The method of claim 1, wherein the PreSBD client is instantiated prior to launching the first SBD client or launching any non-PreSBD client.

9. The method of claim 1, wherein respective SBD document URL associated with the plurality of SBD descriptors of the DASH streaming session are transmitted to the PreSBD client prior to processing a respective request for the segment of the video content.

10. An apparatus comprising:

at least one memory configured to store computer program code;

at least one processor configured to access the computer program code and operate as instructed by the computer program code, the computer program code including:

obtaining code configured to cause the at least one processor to obtain a pre-session-based description (PreSBD) information of a DASH streaming session from a PreSBD descriptor, the PreSBD information instructing a PreSBD client to generate customized session-based description (SBD) document uniform resource locator (URL) for a plurality of SBD descriptors of the DASH streaming session, and the PreSBD descriptor being separate from the plurality of SBD descriptors;

instantiating code configured to cause the at least one processor to instantiate the PreSBD client and passing PreSBD descriptor information, wherein the PreSBD client is instantiated prior to instantiating any SBD descriptor among the plurality of SBD descriptors;

first controlling code configured to cause the at least one processor to control generation of a customized SBD document URL associated with a first SBD descriptor from the plurality of SBD descriptors of the DASH streaming session; and

launching code configured to cause the at least one processor to launch a first SBD client associated with the first SBD descriptor based on the customized SBD document

URL and passing the first SBD descriptor, wherein the first SBD client is among the plurality of SBD descriptors.

11. The apparatus of claim 10, further comprising:

second controlling code configured to cause the at least one processor to control generation of a segment uniform resource locator (URL) based on the first SBD descriptor and the customized SBD document URL, and processing a request for a segment of the video content by at least modifying the segment URL; and

providing code configured to cause the at least one processor to provide the segment of the video content based on the modified segment URL.

12. The apparatus of claim 10, wherein the plurality of SBD descriptors of the DASH streaming session comprises SBD descriptors in a same media presentation description (MPD) element with the PreSBD descriptor information or the SBD descriptors in a lower-level MPD element than the MPD element with the PreSBD descriptor information.

13. The apparatus of claim 10, wherein the PreSBD descriptor information includes a type of hypertext transfer protocol (HTTP) get request that is subject to customized SBD document URL generation.

14. The apparatus of claim 10, wherein no more than one PreSBD descriptor information is present in a media presentation description (MPD) element.

15. The apparatus of claim 10, wherein the PreSBD descriptor information is absent in a lower-level element of a media presentation description (MPD) element than with the PreSBD descriptor information.

16. The apparatus of claim 10, wherein the PreSBD client is instantiated prior to launching the first SBD client or launching any non-PreSBD client.

17. The apparatus of claim 10, wherein respective SBD document URL associated with the plurality of SBD descriptors of the DASH streaming session are transmitted to the PreSBD client prior to processing a respective request for the segment of the video content.

18. A non-transitory computer-readable medium storing instructions that, when executed by at least one processor, cause the at least one processor to~~:~~

~~obtain a pre-session-based description (PreSBD) information of a DASH streaming session instructing a PreSBD client to generate customized session-based description (SBD) document uniform resource locator (URL) for a plurality of SBD descriptors of the DASH streaming session;~~

~~instantiate the PreSBD client and passing PreSBD descriptor information;~~

~~control generation of a customized SBD document URL associated with a first SBD descriptor from the plurality of SBD descriptors of the DASH streaming session; and~~

~~launch a first SBD client based on the customized SBD document URL and passing the first SBD descriptor~~ perform the method of any one of claims 1 to 9.

19. The non-transitory computer-readable medium of claim 18, further storing instructions that cause the at least one processor to:

control generation of a segment uniform resource locator (URL) based on the first SBD descriptor and the customized SBD document URL, and processing a request for a segment of the video content by at least modifying the segment URL; and

providing code configured to cause the at least one processor to provide the segment of the video content based on the modified segment URL.

20. The non-transitory computer readable medium of claim 18, wherein the plurality of SBD descriptors of the DASH streaming session comprises SBD descriptors in a same media presentation description (MPD) element with the PreSBD descriptor information or the SBD descriptors in a lower-level MPD element than the MPD element with the PreSBD descriptor information.