What is Claimed is:

1. A method of content preparation for a 5G media streaming (5GMS) network performed by at least one processor, the method comprising:

receiving content to be prepared for the 5GMS corresponding to an input Common Media Application Format (CMAF) track and a set of output CMAF tracks;

determining a content preparation template (CPT), wherein the CPT includes a Network Based Media Processing (NBMP) workflow description document (WDD) which specifies an input format of the input CMAF track, and an array of instances comprising task instances and corresponding function instances, each instance of the array corresponding to the set of output CMAF tracks, wherein each instance of the array specifies a path to an output CMAF track of the set of output CMAF tracks, and wherein each encoding parameter corresponding to the output CMAF track is described as a function instance configuration parameter associated with the task instance corresponding to the output CMAF track;

preparing the content according to the CPT; and

streaming the prepared content over the 5GMS network to a media streaming client.

2. The method of claim 1, wherein the CPT comprises a function template for CMAF content preparation.

3. The method of claim 2, wherein the function template specifies an input CMAF media profile corresponding to the input CMAF track using at least from among a media presentation description document, or a protocol corresponding to Hypertext Transfer Protocol Live Streaming.

4. The method of claim 2, wherein the function template specifies a push protocol and a pull protocol for the input CMAF track.

5. The method of claim 2, wherein the function template specifies an output format for the set of output CMAF tracks.

6. The method of claim 2, wherein the function template specifies at least one from among a common parameter and a vendor-specific parameter corresponding to a transcoder related to the content.

7. The method of claim 2, wherein the function template specifies at least one codec corresponding to the set of output CMAF tracks.

8. The method of claim 2, wherein the function template specifies at least one from among a reporting parameter, a monitoring parameter, and a notification parameter of a transcoding function corresponding to the content.

9. A device for content preparation for a 5G media streaming (5GMS) network, the device comprising: at least one memory configured to store program code; and

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

receiving code configured to cause the at least one processor to receive content to be prepared for the 5GMS corresponding to an input Common Media Application Format (CMAF) track and a set of output CMAF tracks;

determining code configured to cause the at least one processor to determine a content preparation template (CPT), wherein the CPT includes a Network Based Media Processing (NBMP) workflow description document (WDD) which specifies an input format of the input CMAF track, and an array of instances comprising task instances and corresponding function instances, each instance of the array corresponding to the set of output CMAF tracks, wherein each instance of the array specifies a path to an output CMAF track of the set of output CMAF tracks, each instance of the array comprises an encoding parameter corresponding to

the output CMAF track, and the encoding parameter is associated with the task instance corresponding to the output CMAF track;

preparing code configured to cause the at least one processor to prepare the content according to the CPT; and

streaming code configured to cause the at least one processor to stream the prepared content over the 5GMS network to a media streaming client.

10. The device of claim 9, wherein the CPT comprises a function template for CMAF content preparation.

11. The device of claim 10, wherein the function template specifies an input CMAF media profile corresponding to the input CMAF track using at least from among a media presentation description document, or a protocol corresponding to Hypertext Transfer Protocol Live Streaming.

12. The device of claim 10, wherein the function template specifies a push protocol and a pull protocol for the input CMAF track.

13. The device of claim 10, wherein the function template specifies an output format for the set of output CMAF tracks.

14. The device of claim 10, wherein the function template specifies at least one from among a common parameter and a vendor-specific parameter corresponding to a transcoder related to the content.

15. The device of claim 10, wherein the function template specifies at least one codec corresponding to the set of output CMAF tracks.

16. The device of claim 10, wherein the function template specifies at least one from among a reporting parameter, a monitoring parameter, and a notification parameter of a transcoding function corresponding to the content.

17. A non-transitory computer-readable medium storing instructions, the instructions comprising: one or more instructions that, when executed by one or more processors of a device for content preparation for a 5G media streaming (5GMS) network, cause the one or more processors to:

receive content to be prepared for the 5GMS corresponding to an input Common Media Application Format (CMAF) track and a set of output CMAF tracks;

determine a content preparation template (CPT), wherein the CPT includes a Network Based Media Processing (NBMP) workflow description document (WDD) which specifies an input format of the input CMAF track, and an array of instances comprising task instances and corresponding function instances, each instance of the array corresponding to the set of output CMAF tracks, wherein each instance of the array specifies a path to an output CMAF track of the set of output CMAF tracks, each instance of the array comprises an encoding parameter corresponding to the output CMAF track, and the encoding parameter is associated with the task instance corresponding to the output CMAF track;

prepare the content according to the CPT; and

stream the prepared content over the 5GMS network to a media streaming client.