

ABSTRACT

Systems and methods for managing a Network Based Media Processing (NBMP) workflow are provided. A method includes obtaining, from a descriptor corresponding to a network based media processing (NBMP) workflow, or a task included in the workflow, a syntax element indicating a protocol characteristic of a protocol corresponding to an input or an output of the workflow or the task, deriving the workflow based on the task; and managing at least one media processing entity according to the derived workflow, wherein the protocol characteristic relates to at least one from among an essentiality, a timing, an order, a number, a latency, and a size associated with the input or the output.