ABSTRACT

# Method of recording video streaming in a network video monitoring system

In system management of video streamed from remote IP-cameras across networks and recording of video monitoring or surveillance, we propose a method for *ad hoc* recording and presenting the recorded footage of interest for review and retrieval. A predetermined amount of the video stream is provided in buffer, say 10 minutes. When an *ad hoc* recording is triggered by a user upon seeing an event of interest, or upon automatic trigger by a detector such as motion, sound, vibration or light sensors, the predetermined amount of buffered video is taken as a pre-recording to be stitched or concatenated to the real-time video recording into a chronologically-contiguous video recording. The stitched video may be transmitted from a recording means for viewing, playback, archiving and video management purposes, and may be implemented on multiple continuous video streams transmitted from remote video capture sources (via Real-time Transport Protocol (RTP), Video Management System (VMS) recasting means, or a Proxy Server via Real–time Transport Streaming Protocol (RTSP)) to a recording means provided that each video stream is similarly buffered to enable stitching of the prerecording to the actual recording. The stitched videos may then be transmitted via File Transfer Protocol (FTP) and uploaded to a video view-on-demand (VVOD) means or transmitted to a video view-on-demand (VVOD) means and Video Management (VMGT) means via TCP/IP for uploading and/or distribution purposes, including via secured WCF framework in a Command and Control System (CACS) running on a Gigabit local area network (LAN).

Figure 1

