ABSTRACT

The invention relates to a system and computer-implemented method for programmable and tokenized video delivery. The system virtualizes rendered video files by extracting structural metadata and removing media sample data to generate a reference container containing encrypted links to remote media sources. Access to the referenced media is governed by cryptographic video tokens generated at request time, binding user consent parameters, licensing terms, execution constraints, and transaction metadata. Media resolution occurs only after successful token validation, enabling secure, real-time assembly of video streams in volatile memory without creating persistent rendered files. A secure resolution service may operate within a hardware-attested trusted execution environment to prevent unauthorized access and reuse. The system supports dynamic sequencing, personalization, and multi-owner content assembly within a single playback session, while logging dereference events to an auditable transaction layer for billing, royalty allocation, or advertising actions.