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(57) Abstract :

The present disclosure introduces a novel system and method for verifying renamed content using manifests within a content-centric network (110). The proposed system addresses the challenges of maintaining data integrity, authenticity, and verification in dynamic content-centric environments. Unlike traditional content distribution models, the system focuses on content identification, secure distribution, and verification through the utilization of manifests. The system assigns unique identifiers to content items and associates them with corresponding manifests. These manifests encapsulate cryptographic checksums of content data and relevant metadata. It also verifies the integrity of content by comparing its checksum with the manifest's checksum, ensuring data consistency during retrieval. The system also manages secure communication protocols for efficient manifest and verification data exchange and records and monitors events related to content verification, distribution, and renaming, providing transparency and aiding in troubleshooting.

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