

## 软件定义内容网络中的实时媒体传输实现

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**摘 要:** 内容中心网络 (CCN) 的内容路由思想为高效视频分发提供了可能性. 协议无感知转发协议 (POF) 是对软件定义网络 (SDN) OpenFlow 协议的扩展, 能够支持位置无关的内容路由数据包. 在基于 POF 实现的软件定义内容网络 (SDCN) 上设计了一种实时媒体传输架构, 并在实际环境中进行了部署与实验, 结果证明了该方案的可行性与优势.

**关键词:** 软件定义内容网络; 实时媒体传输; 协议无感知转发; 内容中心网络

## Real-time Media Transmission in Software-defined Content Network

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**Abstract:** Content routing of Content Centric Network (CCN) provides the possibility of efficient video content distribution. Protocol oblivious forwarding is an extension of OpenFlow protocol of software-defined network (SDN). In this paper, we design a real time media transmission infrastructure based on software defined content network (SDCN) which is a prototype of CCN based POF. Then we deploy the plan in a real environment and do experiments. The results demonstrate the feasibility and advantages of the scheme.

**Key words:** SDCN; real-time media transmission; POF; CCN

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