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Practical active network services within content-aware gateways

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Abstract

The Internet has seen an increase in complexity due to the introduction of new types of networking devices and services, particularly at points of discontinuity known as network edges. As the networking industry continues to add revenue generating services at network edges, there is an increasing need to provide a systematic method for dynamically introducing and providing these new services in lieu of the ad-hoc approach that is in use today. To this end we support a phased approach to "activating" the Internet and suggest that there exists an immediate need for realizing active networks concepts at the network edges. In this context, we present our efforts towards the development of a content-aware active gateway (CAG) architecture. With the help of two practical services running on our initial prototype, built from commercial networking devices, we give a qualitative and quantitative view of the CAG potential

Index Terms

Inspe

Controlled Indexing

[Internet](#) [application program interfaces](#) [multicast communication](#) [network operating systems](#)
[software architecture](#)

Non-controlled Indexing

[API](#) [Internet](#) [active network services](#) [commercial networking devices](#) [content delivery](#)
[networks](#) [content transformation](#) [content-aware active gateway](#) [multicast](#) [network edges](#)
[programmable networking devices](#) [revenue generating services](#) [software architecture](#)
[streaming media](#)

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Medical Subject Heading (MeSH Terms)

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Not Available

DOE Thesaurus Terms

Not Available

References

No references available on IEEE Xplore.

Citing Documents

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Systems, Man, and Cybernetics, Part C: Applications and Reviews, IEEE Transactions on
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