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Multicast
Congestion
Control For

A Scalable Overlay Multicast Congestion Control For

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A Scalable Overlay Multicast Congestion

This paper presents a

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scalable overlay
multicast congestion
control scheme
(overlayTFMRC) for
multimedia streaming
over Internet. The
scheme seeks to
extend multicast
scalability within our...

A scalable overlay multicast congestion control for ...

multicast trees or
routes to deliver data
in a scalable man-ner
[5, 1, 3]. However, the

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problem with building routes between end-hosts using logical overlays is that data may be duplicated at the physical network level, increasing physical link stress.

Similarly, the end-to-end delay of data transported along a logical overlay path between a pair of

Scalable Overlay Multicast Tree Construction for

Where To Download A Scalable Overlay **Media ...**

This paper presents a scalable overlay multicast congestion control scheme (overlayTFMRC) for multimedia streaming over Internet. The scheme seeks to extend multicast scalability within our previous TCP-friendly unicast congestion control scheme streamTFRC using multiple time-scale prediction for

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multimedia QoS
transport.

**A scalable overlay
multicast congestion
control for ...**

CiteSeerX - Document
Details (Isaac Council,
Lee Giles, Pradeep
Teregowda): Abstract
— We consider reliable
multicast in overlay
networks where nodes
have finite-size buffers
and are subject to
failures. We address
issues of end-to-end

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reliability and
throughput scalability
in this framework. We
propose a simple
architecture which
consists of using
distinct point-to-point
TCP connections ...

**CiteSeerX – The
One-to-Many TCP
Overlay: A Scalable
and ...**

This paper presents a
scalable overlay
multicast congestion
control scheme

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(overlayTFMRC) for
multimedia streaming
over Internet. The
scheme seeks to
extend multicast
scalability within our ...

**Scalable fair
multicast using
active services |
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The congestion
summary an SA sends
to its parent consists of
two parameters: (1)
parameter minCwnd,
which is the minimum

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of the SA's cwnd and the cwnds reported by its children, and which estimates the congestion level of the bottleneck link on the multicast routes to the receivers in the tree, and (2) parameter $\max T_{wnd}$, which is the maximum of ...

MTCP: scalable TCP-like congestion control for reliable

...

Moreover, the Pagoda

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Network Can
Route Arbitrary
Multicast Problems
Congestion
Control For
with a congestion that
is within a logarithmic
factor of what a best
possible overlay
network of logarithmic
degree for that
particular multicast
problem

**Pagoda: A Dynamic
Overlay Network for
Routing, Data ...**

The hierarchy implicitly
defines the multicast

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overlay data paths, as described later in this section. The member hierarchy is crucial for scalability, since most members are in the bottom of the hierarchy and only maintain state about a constant number of other members. The members at the very top of the hierarchy maintain (soft) state about

Scalable Application

Where To Download A Scalable Overlay **Layer Multicast**

Algebra-Based Scalable
Overlay Network
Monitoring: Algorithms,
Evaluation, and ...
plication-level
multicast, and peer-to-
peer file sharing. These
... from when the
congestion/failure
occurs, to when TOM
detects it and sends
alternative overlay
path to the client, until
the client ...

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Scalable Overlay
**TRANSACTIONS ON
NETWORKING, VOL.
15, NO. 5 ...**

CiteSeerX - Document
Details (Isaac Councill,
Lee Giles, Pradeep
Teregowda): Overlay
networks have become
popular in recent times
for content distribution
and end-system
multicasting of media
streams. In the latter
case, the motivation is
based on the lack of
widespread
deployment of IP

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multicast and the
ability to perform end-
host processing.

**CiteSeerX –
Scalable Overlay
Multicast Tree
Construction ...**

Overlay networks have become popular in recent times for content distribution and end-system multicasting of media streams. In the latter case, the motivation is based on the lack of

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widespread
deployment of IP
multicast and the
ability to perform end-
host processing.

Scalable Overlay Multicast Tree Construction for QoS

...

Traditionally, native IP
multicast has been the
preferred method for
delivering content to a
set of re- ceivers in a
scalable fashion.

However, a number of

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con- siderations,
including scale,
reliability, and
congestion con- trol,
have limited the wide-
scale deployment of IP
multi- cast.

Bullet: High Bandwidth Data Dissemination Using an Overlay ...

An application level
multicasting system
Provides scalable and
reliable single-source
multicast Goals

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Overlay structured to maximize bandwidth
Utilize network topology efficiently -
limit repeated usage of physical links
No change to existing routers - easy deployment
Draws upon work in content distribution, caching, and server replication
Key ...

PowerPoint Presentation

The One-to-Many TCP

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Overlay: A Scalable

and Reliable Multicast

Architecture Franc_ois

Baccelli* Augustin

Chaintreau* Zhen Liuy

Anton Riabovy

Abstract—We consider

reliable multicast in

overlay net-works

where nodes have

finite-size buffers and

are subject to failures.

We address issues of

end-to-end reliability

The One-to-Many

Page 19/26

Where To Download A Scalable Overlay **TCP Overlay: A**

Scalable and Reliable ...

overlay and peer-to-peer systems, such as overlay routing and location, application-level multicast, and peer-to-peer file sharing. These systems flexibly choose their communication paths and targets, and thus can benefit from estimation of end-to-end network distances (e.g., latency and loss

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rate).
Multicast
**Algebra-based
Scalable Overlay
Network Monitoring**

...

Abstract: One of the most significant challenges that confront end-to-end multicast congestion control is providing a scalable solution that addresses the heterogeneity of the receivers. There exist two categories of rate

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based multicast
congestion control
approaches.

**An Adaptive
Mechanism for End-
to-End Multirate
Multicast ...**

In this thesis, we
explore these issues by
developing a scalable,
adaptive and network-
aware infrastructure
for efficient content
delivery, namely
Scalable Content
Access Network

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Control For

(SCAN). SCAN has four components: object location, replica placement and update multicast tree construction, replica management, and overlay network monitoring services.

Towards a Scalable, Adaptive and Network-aware Content ...

since temporary link failure or network congestion can cause a

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significant disruption of the end-user quality.

The novel Scalable Video Coding (SVC) standard enables efficient usage of the network capacity by allowing intermediate high capacity nodes in the overlay network to dynamically extract layers from the scalable bit stream to serve less

Low-delay Peer-to-Peer Streaming

Where To Download A Scalable Overlay Multicast Congestion Control For using Scalable Video Coding

The Scalable Adaptive Multicast (SAM) Research Group was chartered during IETF 66 (7/2006) to investigate multicast protocols including application layer multicast (ALM), overlay multicast (OM), native multicast, and hybrid techniques with the goal of greater scalability and adaptability in terms of

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numbers of multicast
groups and network ...

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