Dual-network access and traffic splitting via switch



Overview

As its name reveals, this feature allows the mobile device to be connected to the 5G network, simultaneously over 5G NR and WLAN, and to steer, switch, or even split uplink and downlink data traffic over the two access networks. imultaneous transmission on both 3GPP and non-3GPP access networks has been enabled. This framework is named as access traffic steering, splitting and switching (ATSSS) in 3GPP and is considered as one of th key enablers to provide stringent requirements on data rate and service continuity. In. This presentation is on multiple simultaneous active paths in ATSSS. ATSSS, 5G, and 3GPP are all a LOT bigger than what's described here. | ---------- | Path Why is Multipath QUIC needed for. The present document can be downloaded from the ETSI Search & Browse Standards application.

Article Content

Low-delay cost-aware multipath scheduling over dynamic links for

Bundling of multiple access technologies is currently being standardized by 3GPP in the 5G access traffic steering, switching and splitting (ATSSS) framework, with the goal to increase

Enhanced Access Traffic Steering Splitting Switching with Utility

key enablers to provide stringent requirements on data rate and service continuity. In this paper, we introduce an enhanced ATSSS (eAT3S) algorithm where not only instantaneous link performance

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Multipath QUIC for Access Traffic Steering Switching and Splitting in ...

Based on this solution, a mobile device can exchange data traffic with the 5G core network by simultaneously using different access networks (e.g., WiFi and 5G-NR). Consequently,

Multipath in 3GPP ATSSS

Goal: add splitting support for non-TCP traffic/any IP & Ethernet traffic Additional goal: support for additional eATSSS modes

MTS-PolKA: Weighted Multipath Traffic Splitting With Source Routing

Unlike existing methods that require reconfiguring network tables at each switch, MTS-PolKA enables dynamic adjustments across all switches in the path through simple packet header

TS 124 193

The present document specifies the procedures for access traffic steering, switching and splitting (ATSSS) between the UE and the network across one 3GPP access network and one non-3GPP

Multiservice-Based Traffic Scheduling for 5G Access Traffic Steering ...

As a key enabler of the access traffic steering, switching and splitting (ATSSS) feature, multipath transport can leverage the simultaneous use of several network paths and support

Multi-Connectivity Enhancements for the 6G era

In particular, this paper emphasizes on the envisaged use cases necessitating multi-access connectivity, and delineates how Access Traffic Steering, Switching, and Splitting (ATSSS) functionality can be

Multiservice-Based Traffic Scheduling for 5G Access Traffic Steering ...

The Access traffic steering, switching, and splitting (ATSSS) feature offers significant advantages for existing mobile networks, and is the principal solution for achieving multi-network

Enhanced Access Traffic Steering Splitting Switching with Utility

imultaneous transmission on both 3GPP and non-3GPP access networks has been enabled. This framework is named as access traffic steering, splitting and switching (ATSSS) in 3GPP and is

Ethernet Splitter vs. Switch: What''s the Difference?

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Short on Ethernet ports and looking to connect an extra device or two to your wired network setup? You''re likely to encounter two options: an Ethernet

Access traffic steering, switching, and splitting management

A method and apparatus for access traffic steering, switching, and splitting are disclosed. In one embodiment, a method includes: establishing a connection between a user equipment and a core

Traffic splitting in a network: split traffic models and applications

Bertsekas thus pointed out that the traffic splitting mechanism plays an important role on traffic load balancing. In Ref. , Livny and Melman illustrated that a network is always inefficient

Revisiting Traffic Splitting for Software Switch in Datacenter

Datacenter network topology contains multiple paths between server machines, with each path assigned a weight. Software switches perform traffic splitting, an essential networking operation

Enhanced Access Traffic Steering Splitting Switching with Utility

Coexistence of 3GPP access networks, namely 4G and 5G, and non-3GPP access networks, namely Wi-Fi, has enabled data offloading from one access network to another to reduce burden on the

Traffic splitting in a network: split traffic models and applications

System model bursty multimedia traffic in current or future high-speed networks, we try to study the model of split traffic passing Since we investigate traffic splitting and an application of through a

[2302.05439] Enhanced Access Traffic Steering Splitting Switching

Coexistence of 3GPP access networks, namely 4G and 5G, and non-3GPP access networks, namely Wi-Fi, has enabled data offloading from one access network to another to reduce

Deterministic Bandwidth-Based Packet-Level Traffic Splitting for ...

This paper proposes a new packet-level trafic splitting scheme, named deterministic bandwidth-based (DBB), which reserves paths for packets based on available link bandwidth. The goal is to exploit

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