

# Dual-core switch traffic offloading





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### **[2412.04192] Traffic-cognitive Slicing for Resource-efficient**

View a PDF of the paper titled Traffic-cognitive Slicing for Resource-efficient Offloading with Dual-distillation DRL in Multi-edge Systems, by Ting Xiaoyang and 2 other authors

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### **An energy-aware traffic offloading approach based on deep**

While the offloading task is beyond the computation ability of vehicles, the utilized energy of the DMEC model rises rapidly . The inadequate radio resources for traffic offloading were the

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### **P4+NFV: Optimal offloading from P4 switches to NFV for diverse traffic**

The paper showcases significant performance gains of optimally offloading traffic from a P4 switch to a VNF amidst changes in disparate traffic and network parameters through simulations

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### **OpenvSwitch Offload**

Traffic going to a representor device can be a result of a miss in the embedded switch (eSwitch) FDB tables. This means that a packet which arrives from that representor into the eSwitch



Cable structure

### What is Network Offloads Compatibility

If the active DPU fails, then the active networking offload is switched to the stand-by DPU. This provides high availability for the DPU. This switchover minimizes the risk of failure on the active workloads. If

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### Task Offloading with Dual-Mode Switching in Multi-access

To overcome the shortcomings of the existing task offloading methods, we design a dual-mode switching method for task offloading in the multi-access edge computing environments.

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Strengthen door locks  
More durable and aesthetically pleasing



Grounding screw  
More aesthetically pleasing and safer



Removable hinges  
Make operation more convenient



Sealing strip  
Dustproof and waterproof

### Energy-Efficient NOMA-Enabled Traffic Offloading via Dual-Connectivity

The recent small-cell dual-connectivity (DC) in 3GPP specification enables a mobile user (MU) to communicate with the macrocell and offload traffic through a small cell, which facilitates a

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### [1509.09241] Joint Scheduling and Power Allocations for Traffic



With the rapid growth of mobile traffic demand, a promising approach to relieve cellular network congestion is to offload users' traffic to small-cell networks. In this paper, we investigate how

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### Recommendations: Dual Core Switch for redundancy.

These are cool technologies, but I'm afraid the core switches that I have doesn't support VSS. I may have to stick with the traditional L2/L3 campus

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### Advancements in Traffic Processing Using Programmable Hardware Flow Offload

An application can use OpenFlow to manipulate packet forwarding tables (e.g. add/remove a packet matching rule), hence it is possible to offload to the switch the flow table: the

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### Task Offloading with Dual-Mode Switching in Multi-access

The bid-based task offloading methods, in turn, have difficulty in utilizing task execution history information to guide offloading decisions. To overcome the shortcomings of the existing task

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### Optimal Dual-Connectivity Traffic



## Offloading in Energy-Harvesting

Traffic offloading through heterogenous small-cell networks (HSCNs) has been envisioned as a cost-efficient approach to accommodate the tremendous traffic growth in cellular

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## Task offloading for multi-server edge computing in industrial

In this paper, we study the latency-aware multi-server partial EC task offloading problem in the industrial Internet with the consideration of joining load balancing and security protection to

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## Green-Oriented Traffic Offloading through Dual Connectivity in Future

Traffic offloading through small cells has been considered as a promising approach to accommodate tremendous traffic growth in future heterogeneous cellular networks (HCNs). The dense deployment

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## What does HW-Offload mean when two switch chips on CCR2004?

With most MikroTik hardware, anytime a packet leaves one switch chip to go to another, it's doing it via the CPU. With the RB2011/3011's, you could configure the switch VLANs

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## Optimize your edge data center with virtual switch

So, there's a strong incentive to minimize the number of CPU cores required for virtual switching, especially for high-throughput use cases.

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## Traffic scheduling and power allocations for mobile data offloading via

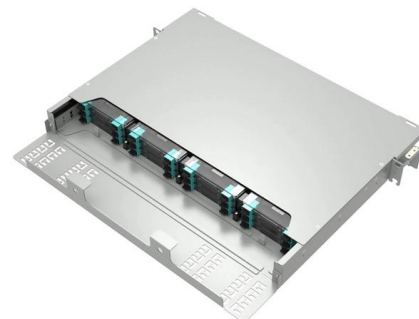
In this paper, we investigate how the mobile users (MUs) can effectively offload traffic by taking advantage of the capability of dual-connectivity, which enables an MU to simultaneously

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## P4toNFV: Offloading from P4 switches to NFV in programmable data

By leveraging this approach, P4 switches handle the core data plane, ensuring maximum performance, whereas virtualized network functions (VNF) cater to the intricate processing. Central to our research

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## Cisco Nexus Smart Switches with DPUs

Nexus 9300 Smart Switch as a 2-arms firewall  
Starting with 10.6(1s) it will be possible to deploy the Nexus 9300 Smart Switch as a redundant pair with Active/Active stateful HA and with support for HSRP.

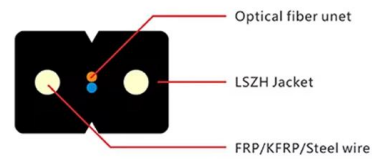
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## Optimal Dual-Connectivity Traffic Offloading in Energy-Harvesting

Abstract--Traffic offloading through heterogeneous small-cell networks (HSCNs) has been envisioned as a cost-efficient approach to accommodate the tremendous traffic growth in cellular networks. In this

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## OpenvSwitch Offload

Addressing this, NVIDIA's Accelerated Switching and Packet Processing (ASAP 2) technology offloads OVS data-plane tasks to specialized hardware, like the embedded switch

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## Offloading data traffic via cognitive small cells with

This paper investigates data traffic offloading by considering a third-party cognitive small cell with wireless powered user equipments (UEs) providing data traffic offloading service to a

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## Dual-Connectivity Enabled Traffic Offloading via Small Cells Powered

Dual-connectivity (DC), an emerging paradigm in the recent 3GPP specification, is envisioned as a promising solution to enhance mobile users' (MUs') traffic offloading by aggregating radio resources

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## OVS Offload Using ASAP<sup>2</sup> Direct



NVIDIA Accelerated Switching And Packet Processing (ASAP 2) technology allows OVS offloading by handling OVS data-plane in ConnectX-5 onwards NIC hardware (Embedded Switch or

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### **Secrecy guaranteed optimal traffic offloading via dual-connectivity in**

We investigate mobile user's (MU's) uplink traffic offloading based on the new paradigm of small-cell dual-connectivity (DC) that allows a MU to simultaneously

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### **OVS Offload Using ASAP2 Direct**

Mellanox Accelerated Switching And Packet Processing (ASAP2) technology allows OVS offloading by handling OVS data-plane in Mellanox ConnectX-5 onwards NIC hardware (Mellanox

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### **Queue-Aware Cell Activation and User Association for Traffic Offloading**

With the objective of reducing energy cost, we study the stochastic optimization of traffic offloading via dual-connectivity by joint cell activation and user association. Particularly, explicitly

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## N9300 Series Smart Switch FAQ

Cisco N9300 Series Smart Switches integrate data-processing units (DPUs) into Cisco series switches, turning them multifunctional, service-hosting devices that are able to offload complex

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## 10

Ultra-dense Networks - November 2020 Recently, software-defined networking (SDN) has been expected as an efficient technology to realize flexible resource management and system

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