

TOWARDS PROPOSING A NOVEL THEORETICAL TECHNIQUE FOR TRAFFIC MONITORING OVER FIXED MONITORS

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ABSTRACT

Monitoring the traffic encompasses traffic accounting, traffic shaping of network, operators employed in network, forensics involved and debugging. Most of the existing solutions only use better placement monitoring methods which are fixed in routing and routing traffic sub populations over existing monitors. This work proposes a novel technique for monitoring the network traffic flows. Traffic characteristics and measurement objectives are changing frequently. So, previous techniques for traffic monitoring become sub-optimal because of poor choice of monitors placement. To solve this problem we strategically routing traffic sub populations over fixed monitors. This approach is called measurouting. The main motive for MeasuRouting is effectively utilizing channel capacity or meeting quality-of-service constraints. It works within the constraints of existing intra domain traffic engineering operations. In this paper, we present a theoretical framework for MeasuRouting.

KEYWORDS: Intra Domain Traffic Engineering, Traffic Accounting, Forensics, Traffic Characteristics, Traffic Shaping of the Network