

Self-Contained Alternate-Marking Mechanism for Performance Monitoring in High-Quality Network

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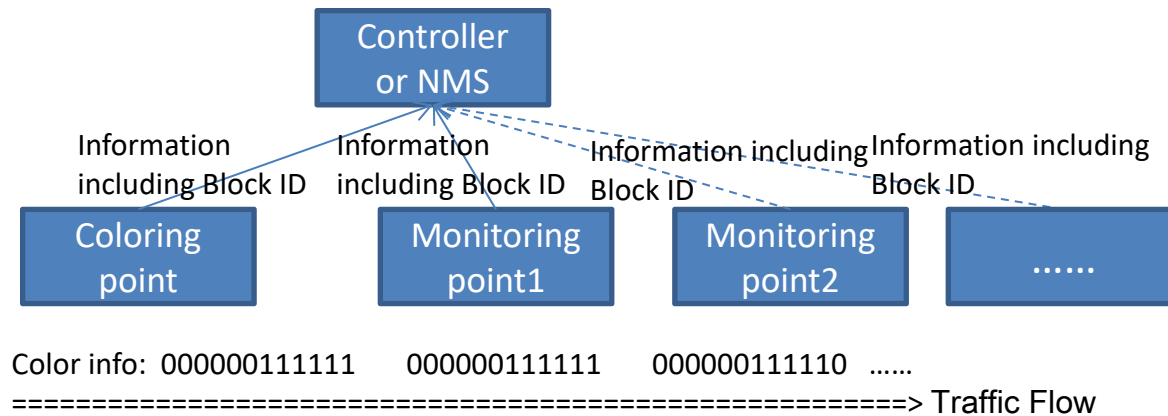
IETF112

2021.11

Authors: Z. Du, P. Liu

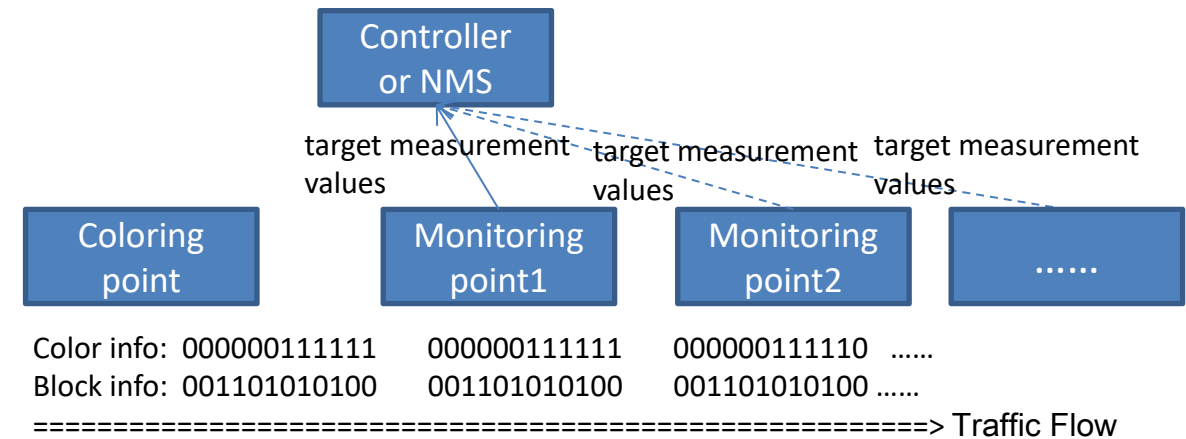
China Mobile

Traditional alternate-marking method



1. Step1: color the blocks on the ingress. A block may include several hundreds packets. If the first block is colored as "0", the second will be colored as "1"
2. Step2: egress recognizes the color information
3. Step3: ingress and egress report to a controller
4. Step4: controller relates the info. by using the blockID

Self-contained alternate-marking method



1. Step1: color the blocks on the ingress or client. By occupying another specific bit in each packet of the block, the Block info is serialized and recorded
2. Step2: egress recognizes the color&block information
3. Step3: egress calculates the performance, and reports to a controller if needed