

BroadBand Internet Policer

Nowadays broadband access is the major business driver of telecom operators. However, following bandwidth demand might be paving a non-profitable process for cable operators requiring new heavy HFC optical node split investments with fewer margins than before.

Pareto has highlighted the fact that 20% of the users might be consuming 80% of your resources. BIP will detect them.

Broadband Internet Policer will permit MSO cable operators to defer node splitting by monitoring & policing Bandwidth hogging users during peak hours and monetize the bandwidth.

Vilfredo Pareto, 1848-1923

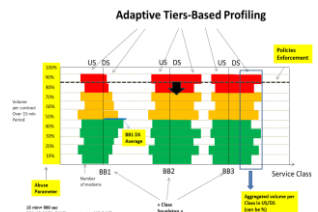
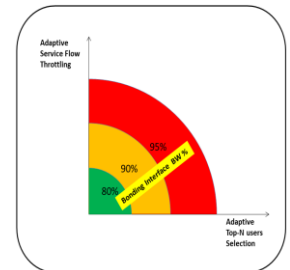
- Italian Economist
- Inspired "80/20" Rule:

80% of result comes from 20% of people or investment

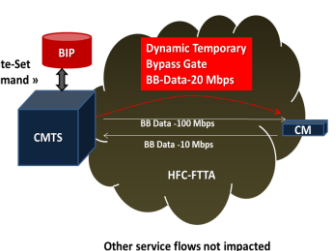


Based upon IPDR CableLabs standard for data retrieval and PCMM CableLabs standards reaction, BIP will automatically perform quota adaptive algorithm within a sliding time windows interval at peak hours. BIP will detect top-x users and will regulate them dynamically for the next 15 minutes based upon an adaptive threshold depending on the level of Docsis 3.0 channels in use upstream & downstream.

BIP will perform Intelligent Packet Discard (IPD) & Random Early Discard (RED) based upon DOCSIS Service Flow dynamic throttling seamlessly with no extra-overhead of bandwidth on the HFC network. Policies will be dynamically applied to more or less top-n users detected and with more or less throttling efforts to prevent the Docsis Bonding channels congestion.



System will focus on the different class o service profile "skeleton" and will retroact to throttle to the average of the service classSystem will automatically generate ; "bypass gate "and "don't touch gate" on the CMTS to maintain abuser traffic to an average during the next period of time without impacting some specific sporadic traffic like Speed Test...



BIP

