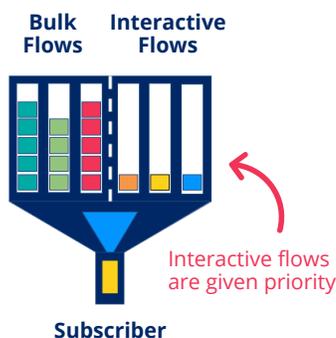


The Difference Between Preseem and DPI Solutions



Let's face it. Your customers don't really care what makes the internet tick. They just want it to work. They want high-speed performance and a service that doesn't buffer or slow down when multiple people in the home are online. Which, nowadays, is pretty much all of the time.

For Internet Service Providers, this can be a problem. With so many demanding applications in use at one time, how can you ensure low latency and keep your subscribers happy? Preseem uses Active Queue Management (AQM) and the FQ-CoDel algorithm to do just this.



The Advantages of AQM Over Deep Packet Inspection

AQM is a traffic management method that proactively drops packets before buffers become full, easing congestion and improving subscriber QoE.

DPI is a set of techniques including signatures and heuristics that aim to identify the application associated with individual network flows and packets. Below are a few reasons why we think AQM is a better option.



FQ-CoDel is an AQM technique used by Preseem that isolates bulk and interactive traffic flows to reduce latency, even under heavy usage—this means significantly fewer “slow internet” calls! DPI can help explain which applications a customer was using when their internet was slow, but **isn't it better to just solve the slow internet problem?**



AQM manages high-bandwidth applications and enforces plan speed limits automatically without manual configuration, giving you time back in your day and peace of mind that your network is running smoothly. Our QoE monitoring and easy-to-understand RF scores do not need any uber-technical “geek knobs.” This lets you **diagnose problem areas easily so you can fix them proactively** rather than after the fact.



DPI looks at packets and decides, where possible, which application generated them and then attempts to classify them for queue placement. Constantly-changing applications and complex rule updates, however, lead to a labor-intensive cat-and-mouse game. With FQ-CoDel, you just **set it and forget it**. The algorithm classifies packets based on flow volume and assigns them to bulk or interactive queues automatically. That leads to low latency and happier customers.

“Prior to having Preseem in our network, speed control was a nightmare, and customers were always complaining of slow internet speeds. After Preseem was put in, **those complaints have dropped to almost none.**” - Steve Barnes, VP of Operations, New Lisbon Telephone Co.