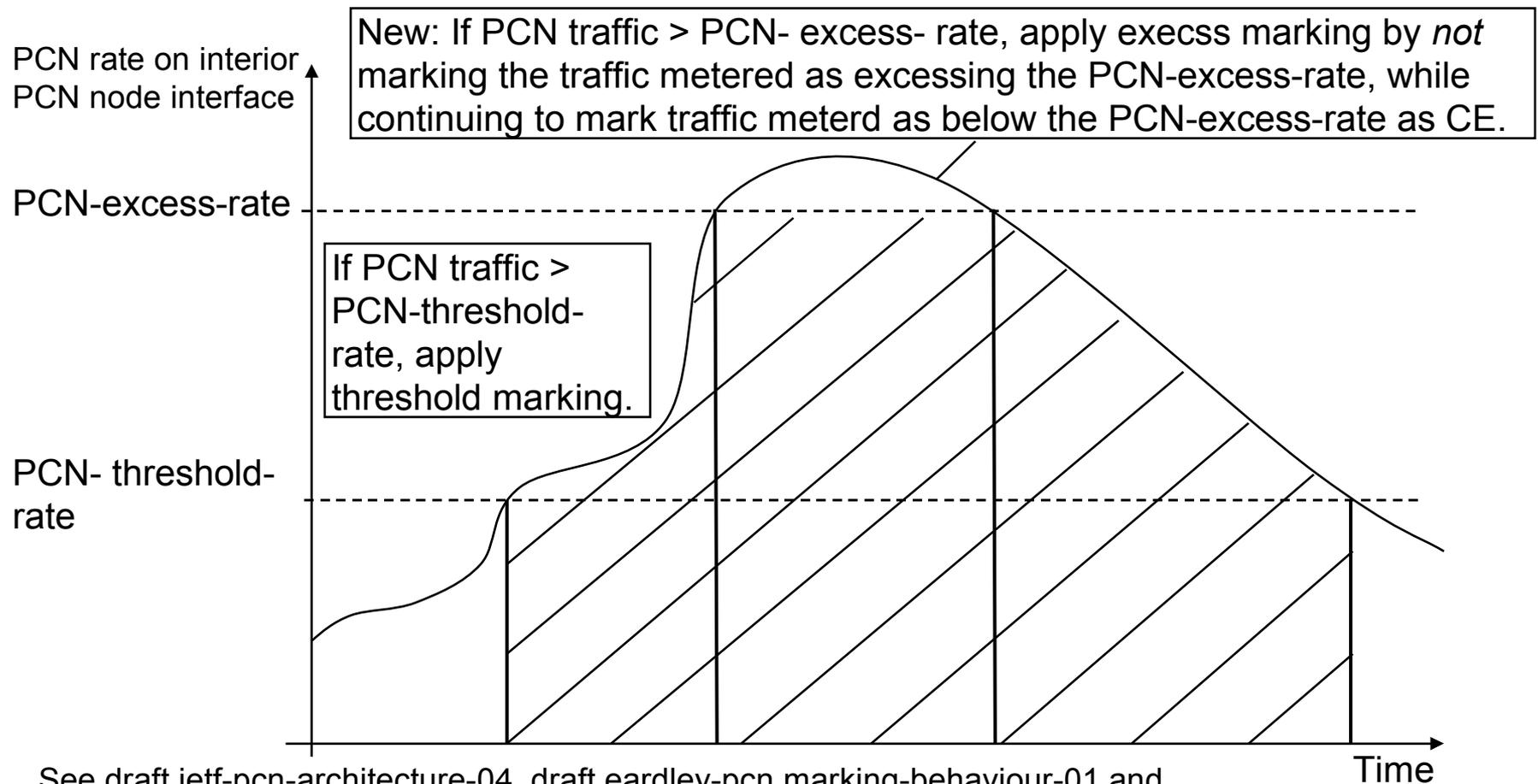


PCN baseline encoding experiment supporting admission control and termination

Rüdiger Geib, 30. July 2008



PCN baseline encoding experiment supporting admission control and termination – how it works.



See draft ietf-pcn-architecture-04, draft eardley-pcn marking-behaviour-01 and draft-moncaster-pcn-baseline-encoding for terminology and basic meter/marker definition.

PCN baseline encoding experiment supporting admission control and termination – pro/con.

Benefits of this approach

- Enables support of PCN Admission Control based on CE marked signaling packets as proposed by Joe Babiarez (requires no rate measurement in the egress to support Admission Control).
- Enables support of termination of admitted PCN traffic based on measured PCN excess rates in egress nodes.
- Consumes just a single codepoint to indicate a change in PCN pre congestion state and is MPLS friendly and supports two PCN states.

Some obvious drawbacks

- Admission Control doesn't work properly once PCN traffic is above PCN-excess-rate.
- The Egress node measures a traffic pattern similar to PCN excess traffic once PCN traffic crosses the PCN-threshold-rate for short periods only.
- Behaviour in the presence of multiple pre-congested PCN nodes is less optimal.