The Addition of Explicit Congestion Notification (ECN) to IP

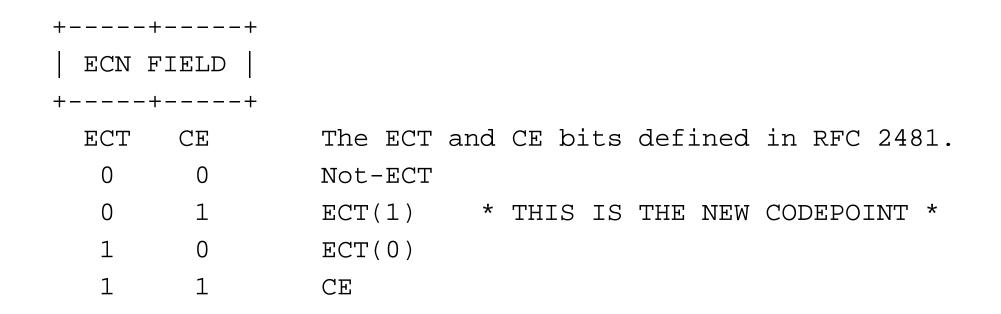
draft-ietf-tsvwg-ecn-02.txt

K. K. Ramakrishnan, Sally Floyd, and David Black IETF-50, March 2001

The changes in draft-ietf-tsvwg-ecn-02.txt:

- Defining the last codepoint in the ECN field in the IP header.
 From the IESG Last Call.
- Adding a paragraph about fragmentation.
 - From Briscoe/Crowcroft.
- Adding a paragraph about the ECN field with Differentiated Services Per-Hop Behaviors.
 - From Briscoe/Crowcroft.

The fourth codepoint:



The ECN Field in the IP Header.

Section 5.3 on Fragmentation:

• "All ECN-capable packets SHOULD have the DF (Don't Fragment) bit set."

• "Reassembly of a fragmented packet MUST NOT lose indications of congestion."

The ECN field with Differentiated Services:

• "The above discussion of when CE may be set instead of dropping a packet applies by default to all Differentiated Services Per-Hop Behaviors (PHBs) [RFC 2475]."

• "Specifications for PHBs MAY provide more specifics on how a compliant implementation is to choose between setting CE and dropping a packet, but this is NOT REQUIRED."

• "A router MUST NOT set CE instead of dropping a packet when the drop that would occur is caused by reasons other than congestion or the desire to indicate incipient congestion to end nodes."

- In Section 5.