Shared Use of TCP Experimental Options

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As presented by the TCPM Chairs

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Summary

- ## Current experimental options overloaded
    - Multiple concurrent uses cannot be distinguished

- ## Add an experiment ID/demultiplexer
    - Changes to the mechanism mandated by IESG review

- ## Goal
    - Proposed Standard, as per WG direction

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Recent Changes

- **Changed from self-assigned, variable length magic number to "Experimental ID" (ExID):**
  - 16-bit or 32-bit
  - Full value registered with IANA
  - FCFS on the first 16-bits
- **Change recommendation from "SHOULD"**
  - SHOULD for contained experiments
  - MUST for public experiments
- **Includes**
  - IANA assignment procedures
  - Use procedure update
  - Discussion on the benefits of different ExID lengths
  - Discussion on IESG-suggested alternatives