

User Devices Explicit Monitoring

draft-cnbf-ippm-user-devices-explicit-monitoring-04

<https://datatracker.ietf.org/doc/draft-cnbf-ippm-user-devices-explicit-monitoring/>

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Proposal: EFM Probes on user devices

- ▶ The draft proposes to put Explicit Flow Measurements probes also on user devices (e.g., smartphones, tablets, PCs).
- ▶ Strengths:
 - ▶ **Scalability.** On the user device there are few connections to monitor.
 - ▶ **More precise measurements.** Client application delay can be measured.
 - ▶ **The monitoring of both directions is guaranteed.**
 - ▶ **Network monitoring equipment savings.** Network probes can monitor only impaired connections through “**user device and network probes coordination**”. *It's possible to set alarm thresholds on the user device signaling to network probes to monitor only sessions with impairments.*
 - ▶ **Metric improvements.** Not E2E metrics (like Q-Bit) become E2E if measured at the endpoint; L-Bit measures are not affected by losses and therefore more reliable.
- ▶ “User device EFM assumptions”:
 - ▶ The device owner decides whether to mark his traffic.
 - ▶ The device owner decides whether to share his performance data.

