

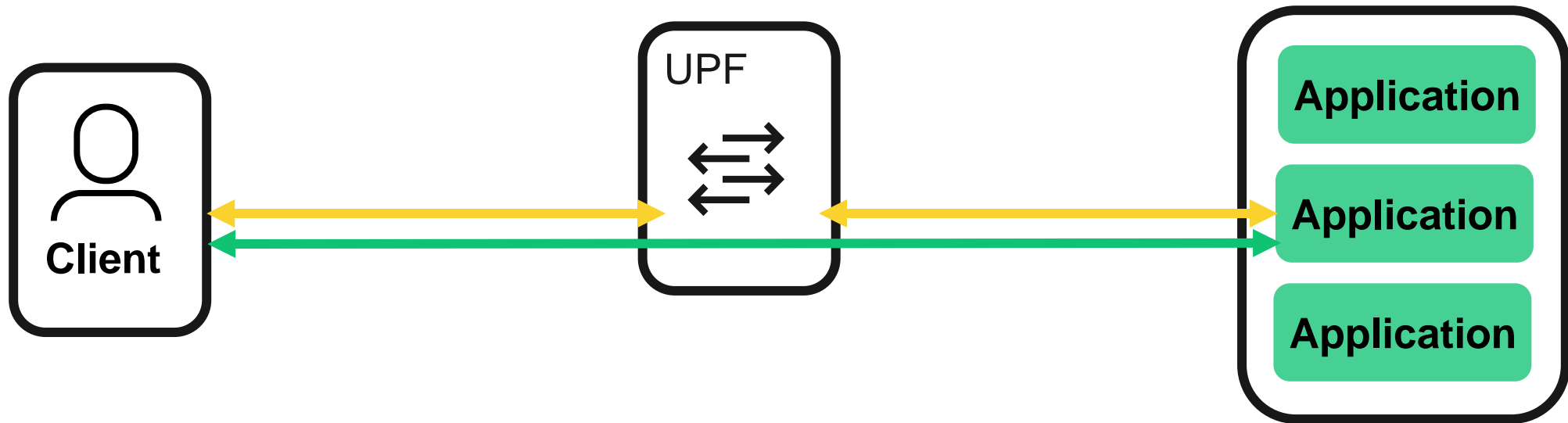
SADCDN Applicability in MNO Userplane



Problem



- Classify adaptive bitrate video traffic.
 - Ideally in a way that is not application specific.
- Apply subscription and context-based policy, e.g., restricted media bitrate.
 - Ideally by explicitly communicating the policy with application endpoints.
- Information relevant for classification and for communicating policies should ideally be encrypted.



Is it Too Expensive?



- Decrypting and reading and protected meta-data is more expensive than pure packet forwarding.
- But so are currently deployed traffic classification techniques such as:
 - Parsing of HTTP URLs.
 - Finding SNI:s in TLS handshakes.
 - QUIC – trial decryption of Initial packets.
- Generating encrypted messages comes with additional cost and complexity.
 - But so does in-network video shaping.
- Ideally, classification and interaction happen during flow initialization, without the need for per-packet marking.

