Indication of support for reverse keep-alive
(draft-holmberg-sipcore-rkeep)

Christer Holmberg, Ericsson
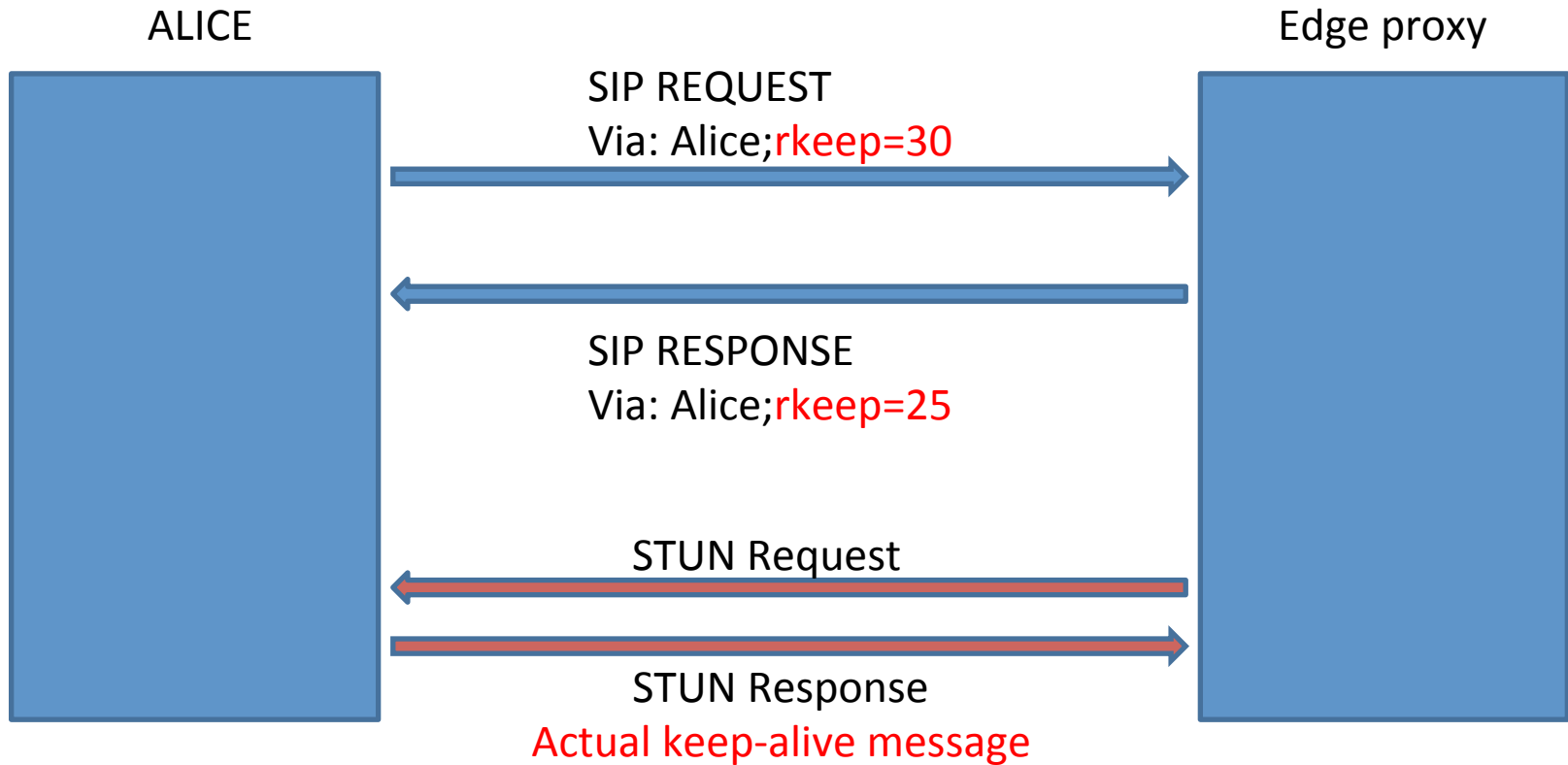Oscar Gallego, Vodafone
Hadriel Kaplan, ACME
IETF#84, Vancouver

PROBLEM

- RFC 6223 allows entity to indicate willingness to send keep-alives
- Some SIP devices are not able to send keep-alives
  - E.g. scheduling policy of the operating system used by the SIP device does not meet the requirement for sending keep-alives using a proper frequency, meaning that NAT bindings might not be kept.
  - The SIP device needs to request another device to send keep-alives towards itself
  - The keep-alive response message (STUN response) sent from the SIP device will ensure that the NAT binding is kept open.

Reverse keep-alive (rKeep)

- Allows entity to indicate willingness to **receive** keep-alives
- Allows entity to indicate, to entity that has indicated willingess to receive keep-alives, that it will **send** keep-alives

- Very similar to RFC 6223
  - Allows entity to indicate willingess to send keep-alives
  - Negotiation done using new Via header field parameter
  - For registration or session

Reverse keep-alive (rKeep)

ALICE   Edge proxy

SIP REQUEST
Via: Alice;rkeep=30

SIP RESPONSE
Via: Alice;rkeep=25

STUN Request

STUN Response
Actual keep-alive message

THANK YOU!