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

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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 willingness to receive keep-alives, that it will **send** keep-alives

- Very similar to RFC 6223
  - Allows entity to indicate willingness to send keep-alives
  - Negotiation done using new Via header field parameter
  - For registration or session
Reverse keep-alive (rKeep)

ALICE

SIP REQUEST
Via: Alice;rkeep=30

Edge proxy

SIP RESPONSE
Via: Alice;rkeep=25

STUN Request

STUN Response
Actual keep-alive message
THANK YOU!