Legend: 802.15.4 & 6LoWPAN, CoAP, OSCORE, DNS, 802.15.4 max. frame size (Fragmentation)
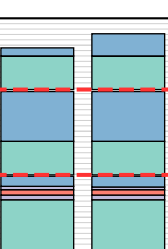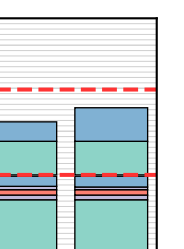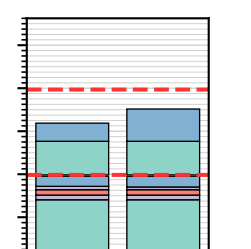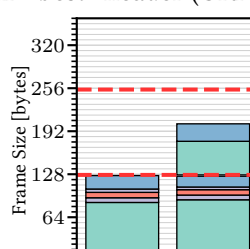
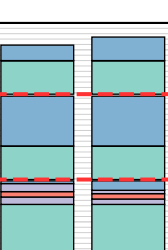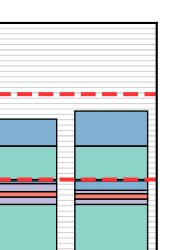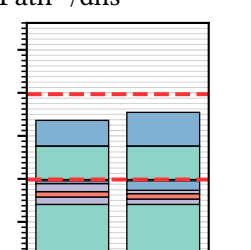Name length = 2 chars (min), Name length = 24 chars (median), Name length = 25.9 chars (mean), Name length = 83 chars (max)
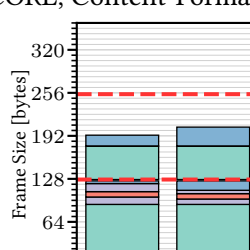
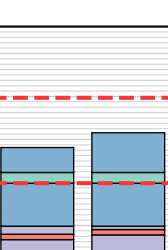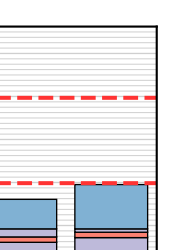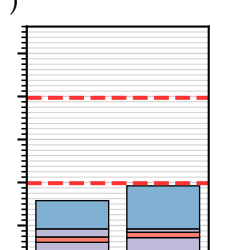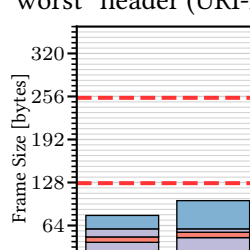IEEE 802.15.4+6LoWPAN worst header / CoAP "worst" header (URI-Path "/dns")
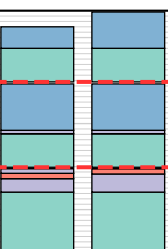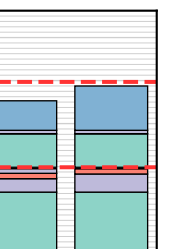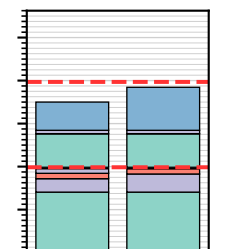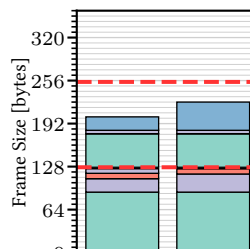
IEEE 802.15.4+6LoWPAN worst header / CoAP "best" header (URI-Path "/d")
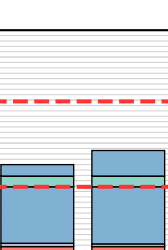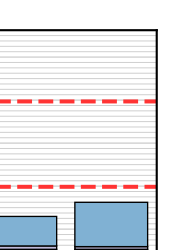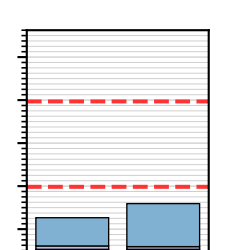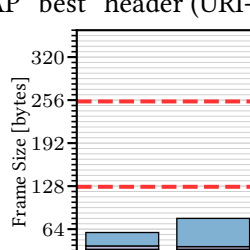
IEEE 802.15.4+6LoWPAN worst header / CoAP with OSCORE, Content-Format and URI-Path "/dns"
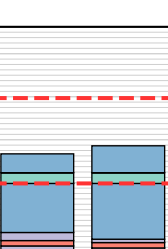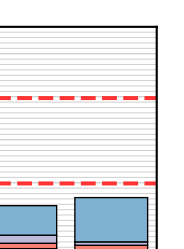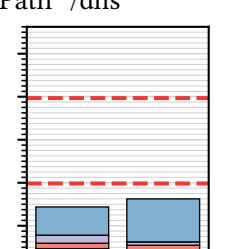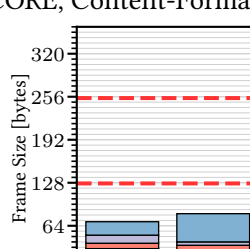
IEEE 802.15.4+6LoWPAN best header (w/o L2 security) / CoAP "worst" header (URI-Path "/dns")
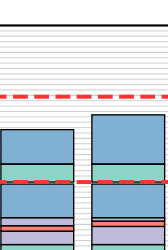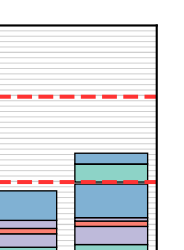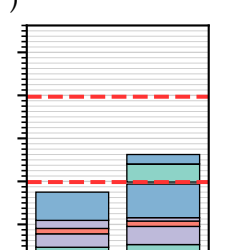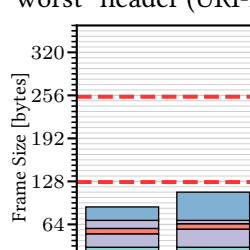
IEEE 802.15.4+6LoWPAN best header (w/o L2 security) / CoAP "best" header (URI-Path "/d")
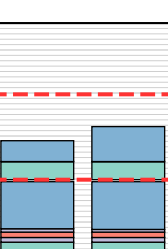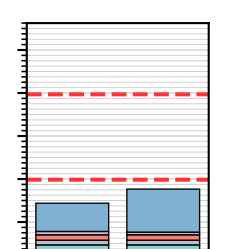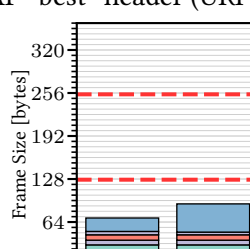
IEEE 802.15.4+6LoWPAN best header (w/o L2 security) / CoAP with OSCORE, Content-Format and URI-Path "/dns"
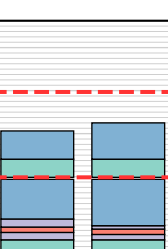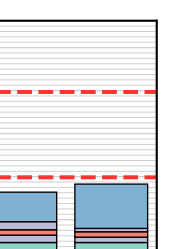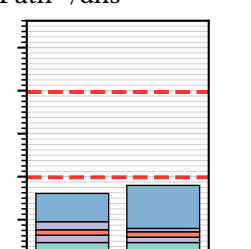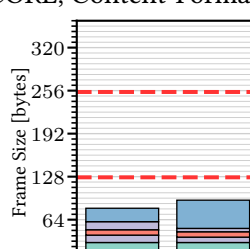
IEEE 802.15.4+6LoWPAN best header (w/ L2 security, 16-bit key) / CoAP "worst" header (URI-Path "/dns")
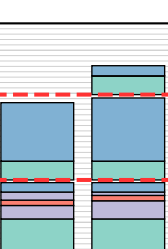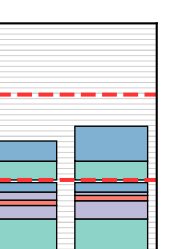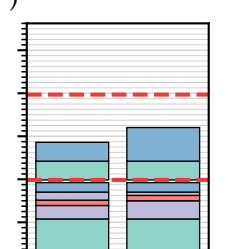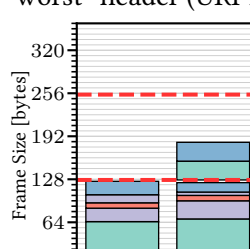
IEEE 802.15.4+6LoWPAN best header (w/ L2 security, 16-bit key) / CoAP "best" header (URI-Path "/d")
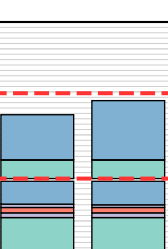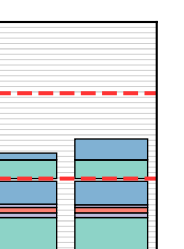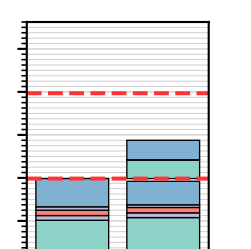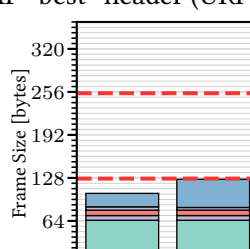
IEEE 802.15.4+6LoWPAN best header (w/ L2 security, 16-bit key) / CoAP with OSCORE, Content-Format and URI-Path "/dns"

IEEE 802.15.4+6LoWPAN RIOT-most (w/o L2 security) / CoAP "worst" header (URI-Path "/dns")

IEEE 802.15.4+6LoWPAN RIOT-most (w/o L2 security) / CoAP "best" header (URI-Path "/d")

IEEE 802.15.4+6LoWPAN RIOT-most (w/o L2 security) / CoAP with OSCORE, Content-Format and URI-Path "/dns"
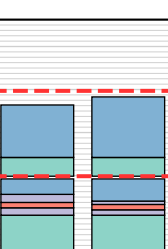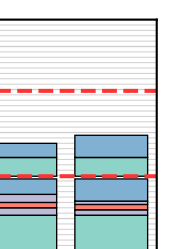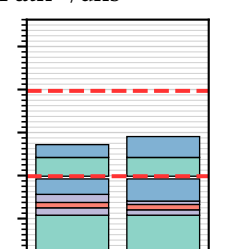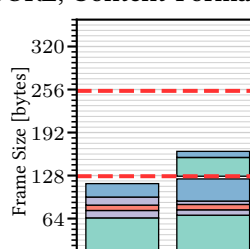
IEEE 802.15.4+6LoWPAN RIOT-most (w/ L2 security) / CoAP "worst" header (URI-Path "/dns")
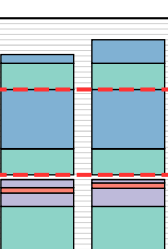
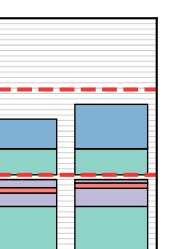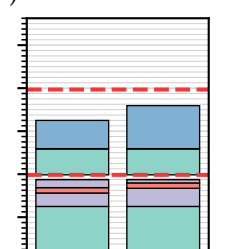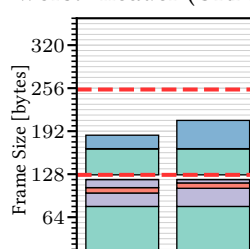IEEE 802.15.4+6LoWPAN RIOT-most (w/ L2 security) / CoAP "best" header (URI-Path "/d")
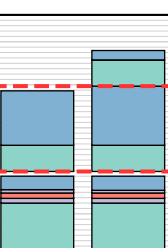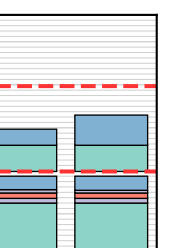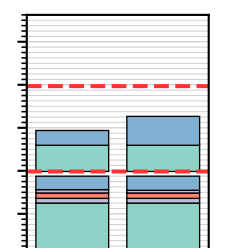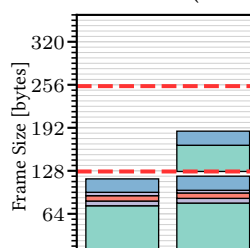
IEEE 802.15.4+6LoWPAN RIOT-most (w/ L2 security) / CoAP with OSCORE, Content-Format and URI-Path "/dns"

Frame Size [bytes]

Query Response (AAAA)