

ipmi-rw -h ****-bmc -u **** -p **** --target-channel-number=6 --target-slave-address=0x2c 0x0 0x2e 0xc8 0x57 0x01 0x00 0x01 0x02 0x00 --debug

Normal Case

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****-bmc: =====
****-bmc: IPMI 1.5 Send Message Request
****-bmc: =====
****-bmc: RMCP Header:
****-bmc: -----
****-bmc: [          6h] = version[ 8b]
****-bmc: [          0h] = reserved[ 8b]
****-bmc: [         FFh] = sequence_number[ 8b]
****-bmc: [          7h] = message_class.class[ 5b]
****-bmc: [          0h] = message_class.reserved[ 2b]
****-bmc: [          0h] = message_class.ack[ 1b]
****-bmc: IPMI Session Header:
****-bmc: -----
****-bmc: [          2h] = authentication_type[ 8b]
****-bmc: [          Ah] = session_sequence_number[32b]
****-bmc: [         ABFEE1Ch] = session_id[32b]
****-bmc: [ BYTE ARRAY ... ] = authentication_code[16B]
****-bmc: [ 05h 20h D4h 25h 0Ch 99h E7h 5Ah ]
****-bmc: [ F9h DBh F9h E4h 1Ch 9Fh 73h 4Ah ]
****-bmc: [          15h] = ipmi_msg_len[ 8b]
****-bmc: IPMI Message Header:
****-bmc: -----
****-bmc: [          20h] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          6h] = net_fn[ 6b]
****-bmc: [          C8h] = checksum1[ 8b]
****-bmc: [          81h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          21h] = rq_seq[ 6b]
****-bmc: IPMI Command Data:
****-bmc: -----
****-bmc: [          34h] = cmd[ 8b]
****-bmc: [          6h] = channel_number[ 4b]
****-bmc: [          0h] = send_message_with_authentication[ 1b]
****-bmc: [          0h] = send_message_with_encryption[ 1b]
****-bmc: [          1h] = tracking_operation[ 2b]
****-bmc: IPMB Message Header:
****-bmc: -----
****-bmc: [          2Ch] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          2Eh] = net_fn[ 6b]
****-bmc: [          1Ch] = checksum1[ 8b]
****-bmc: [          20h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          21h] = rq_seq[ 6b]
****-bmc: IPMB Message Data:
****-bmc: -----
****-bmc: [ BYTE ARRAY ... ] = raw_data[ 7B]
****-bmc: [ C8h 57h 01h 00h 01h 02h 00h ]
****-bmc: IPMB Message Trailer:
****-bmc: -----
****-bmc: [          39h] = checksum2[ 8b]
****-bmc: IPMI Trailer:
****-bmc: -----
****-bmc: [          81h] = checksum2[ 8b]
****-bmc: =====
****-bmc: IPMI 1.5 Send Message Response
****-bmc: =====
****-bmc: RMCP Header:
****-bmc: -----
****-bmc: [          6h] = version[ 8b]
****-bmc: [          0h] = reserved[ 8b]
****-bmc: [         FFh] = sequence_number[ 8b]
****-bmc: [          7h] = message_class.class[ 5b]
****-bmc: [          0h] = message_class.reserved[ 2b]
****-bmc: [          0h] = message_class.ack[ 1b]
****-bmc: IPMI Session Header:
****-bmc: -----
****-bmc: [          2h] = authentication_type[ 8b]
****-bmc: [         4611E103h] = session_sequence_number[32b]
****-bmc: [         ABFEE1Ch] = session_id[32b]
****-bmc: [ BYTE ARRAY ... ] = authentication_code[16B]
****-bmc: [ CDh 24h C3h F5h 89h 75h 2Ch 06h ]
****-bmc: [ ADh 9Fh 12h ECh 24h 3Ch 8Bh 5Eh ]
****-bmc: [          8h] = ipmi_msg_len[ 8b]
****-bmc: IPMI Message Header:
****-bmc: -----
****-bmc: [          81h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          7h] = net_fn[ 6b]
****-bmc: [          63h] = checksum1[ 8b]
****-bmc: [          20h] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          21h] = rq_seq[ 6b]
****-bmc: IPMI Command Data:
****-bmc: -----
****-bmc: [          34h] = cmd[ 8b]
****-bmc: [          0h] = comp_code[ 8b]
****-bmc: IPMI Trailer:
****-bmc: -----
****-bmc: [          28h] = checksum2[ 8b]
****-bmc: =====
****-bmc: IPMI 1.5 OEM Group - Unknown Response
****-bmc: =====
****-bmc: RMCP Header:
****-bmc: -----
****-bmc: [          6h] = version[ 8b]
****-bmc: [          0h] = reserved[ 8b]
****-bmc: [         FFh] = sequence_number[ 8b]
****-bmc: [          7h] = message_class.class[ 5b]
****-bmc: [          0h] = message_class.reserved[ 2b]
****-bmc: [          0h] = message_class.ack[ 1b]
****-bmc: IPMI Session Header:
****-bmc: -----
****-bmc: [          2h] = authentication_type[ 8b]
****-bmc: [         4611E104h] = session_sequence_number[32b]
****-bmc: [         ABFEE1Ch] = session_id[32b]
****-bmc: [ BYTE ARRAY ... ] = authentication_code[16B]
****-bmc: [ 86h 24h 7Eh 52h 4Fh E5h ABh C9h ]
****-bmc: [ C5h 55h C0h 6Dh B5h A2h B7h 5Dh ]
****-bmc: [          1Ch] = ipmi_msg_len[ 8b]
****-bmc: IPMI Message Header:
****-bmc: -----
****-bmc: [          20h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          2Fh] = net_fn[ 6b]
****-bmc: [          24h] = checksum1[ 8b]
****-bmc: [          2Ch] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          21h] = rq_seq[ 6b]
****-bmc: IPMI Command Data:
****-bmc: -----
****-bmc: [ BYTE ARRAY ... ] = raw_data[22B]
****-bmc: [ C8h 00h 57h 01h 00h 04h 00h 03h ]
****-bmc: [ 00h 12h 00h 05h 00h 0Ah F3h 52h ]
****-bmc: [ 5Ch 0Dh 0Fh 00h 00h 52h ]
****-bmc: IPMI Trailer:
****-bmc: -----
****-bmc: [          F9h] = checksum2[ 8b]
****-bmc: =====
****-bmc: IPMI 1.5 Close Session Request
```

stdout

rcvd: c8 00 57 01 00 04 00 03 00 12 00 05 00 0A F3 52 5C 0D 0F 00 00 52

Reversed Case

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****-bmc: =====
****-bmc: IPMI 1.5 Send Message Request
****-bmc: =====
****-bmc: RMCP Header:
****-bmc: -----
****-bmc: [          6h] = version[ 8b]
****-bmc: [          0h] = reserved[ 8b]
****-bmc: [         FFh] = sequence_number[ 8b]
****-bmc: [          7h] = message_class.class[ 5b]
****-bmc: [          0h] = message_class.reserved[ 2b]
****-bmc: [          0h] = message_class.ack[ 1b]
****-bmc: IPMI Session Header:
****-bmc: -----
****-bmc: [          2h] = authentication_type[ 8b]
****-bmc: [          Ah] = session_sequence_number[32b]
****-bmc: [         7F30734h] = session_id[32b]
****-bmc: [ BYTE ARRAY ... ] = authentication_code[16B]
****-bmc: [ FAh 56h C9h DDh 8Ah BFh 41h 7Bh ]
****-bmc: [ A1h 85h F7h 46h DBh D1h C6h 48h ]
****-bmc: [          15h] = ipmi_msg_len[ 8b]
****-bmc: IPMI Message Header:
****-bmc: -----
****-bmc: [          20h] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          6h] = net_fn[ 6b]
****-bmc: [          C8h] = checksum1[ 8b]
****-bmc: [          81h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          34h] = rq_seq[ 6b]
****-bmc: IPMI Command Data:
****-bmc: -----
****-bmc: [          34h] = cmd[ 8b]
****-bmc: [          6h] = channel_number[ 4b]
****-bmc: [          0h] = send_message_with_authentication[ 1b]
****-bmc: [          0h] = send_message_with_encryption[ 1b]
****-bmc: [          1h] = tracking_operation[ 2b]
****-bmc: IPMB Message Header:
****-bmc: -----
****-bmc: [          2Ch] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          2Eh] = net_fn[ 6b]
****-bmc: [          1Ch] = checksum1[ 8b]
****-bmc: [          20h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          34h] = rq_seq[ 6b]
****-bmc: IPMB Message Data:
****-bmc: -----
****-bmc: [ BYTE ARRAY ... ] = raw_data[ 7B]
****-bmc: [ C8h 57h 01h 00h 01h 02h 00h ]
****-bmc: IPMB Message Trailer:
****-bmc: -----
****-bmc: [          EDh] = checksum2[ 8b]
****-bmc: IPMI Trailer:
****-bmc: -----
****-bmc: [          35h] = checksum2[ 8b]
****-bmc: =====
****-bmc: IPMI 1.5 Send Message Response
****-bmc: =====
****-bmc: RMCP Header:
****-bmc: -----
****-bmc: [          6h] = version[ 8b]
****-bmc: [          0h] = reserved[ 8b]
****-bmc: [         FFh] = sequence_number[ 8b]
****-bmc: [          7h] = message_class.class[ 5b]
****-bmc: [          0h] = message_class.reserved[ 2b]
****-bmc: [          0h] = message_class.ack[ 1b]
****-bmc: IPMI Session Header:
****-bmc: -----
****-bmc: [          2h] = authentication_type[ 8b]
****-bmc: [         320801AFh] = session_sequence_number[32b]
****-bmc: [         7F30734h] = session_id[32b]
****-bmc: [ BYTE ARRAY ... ] = authentication_code[16B]
****-bmc: [ B4h BDh B6h 16h F2h 28h 29h 53h ]
****-bmc: [ B8h 4Dh 72h 37h 93h 8Ch FFh C6h ]
****-bmc: [          1Ch] = ipmi_msg_len[ 8b]
****-bmc: IPMI Message Header:
****-bmc: -----
****-bmc: [          20h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          2Fh] = net_fn[ 6b]
****-bmc: [          24h] = checksum1[ 8b]
****-bmc: [          2Ch] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          34h] = rq_seq[ 6b]
****-bmc: IPMI Command Data:
****-bmc: -----
****-bmc: [          C8h] = cmd[ 8b]
****-bmc: [          0h] = comp_code[ 8b]
****-bmc: [ BYTE ARRAY ... ] = response_data[20B]
****-bmc: [ 57h 01h 00h 04h 00h 03h 00h 12h ]
****-bmc: [ 00h 05h 00h 1Dh F3h 52h 5Ch 20h ]
****-bmc: [ 0Fh 00h 00h 52h ]
****-bmc: IPMI Trailer:
****-bmc: -----
****-bmc: [          87h] = checksum2[ 8b]
****-bmc: =====
****-bmc: IPMI 1.5 OEM Group - Unknown Response
****-bmc: =====
****-bmc: RMCP Header:
****-bmc: -----
****-bmc: [          6h] = version[ 8b]
****-bmc: [          0h] = reserved[ 8b]
****-bmc: [         FFh] = sequence_number[ 8b]
****-bmc: [          7h] = message_class.class[ 5b]
****-bmc: [          0h] = message_class.reserved[ 2b]
****-bmc: [          0h] = message_class.ack[ 1b]
****-bmc: IPMI Session Header:
****-bmc: -----
****-bmc: [          2h] = authentication_type[ 8b]
****-bmc: [         320801B0h] = session_sequence_number[32b]
****-bmc: [         7F30734h] = session_id[32b]
****-bmc: [ BYTE ARRAY ... ] = authentication_code[16B]
****-bmc: [ 50h 14h FEh 91h A9h 2Dh 79h 4Bh ]
****-bmc: [ 5Ch ACh 3Eh 39h E9h 6Dh 7Ch 7Ah ]
****-bmc: [          8h] = ipmi_msg_len[ 8b]
****-bmc: IPMI Message Header:
****-bmc: -----
****-bmc: [          81h] = rq_addr[ 8b]
****-bmc: [          0h] = rq_lun[ 2b]
****-bmc: [          7h] = net_fn[ 6b]
****-bmc: [          63h] = checksum1[ 8b]
****-bmc: [          20h] = rs_addr[ 8b]
****-bmc: [          0h] = rs_lun[ 2b]
****-bmc: [          34h] = rq_seq[ 6b]
****-bmc: IPMI Command Data:
****-bmc: -----
****-bmc: [ BYTE ARRAY ... ] = raw_data[ 2B]
****-bmc: [ 34h 00h ]
****-bmc: IPMI Trailer:
****-bmc: -----
****-bmc: [          DCh] = checksum2[ 8b]
****-bmc: =====
****-bmc: IPMI 1.5 Close Session Request
```

stdout

rcvd: 34 00