1. Binary message.

message structure: [header, user_data, tail]

header =
[byte 1 | byte 2 | byte 3 | byte 4   ]
[msg_size LSB | msg_size MSB | flags 8bit | cmdID 8bit   ]

message size (**msg_size**) includes size of header, user_data and tail.
cmdID=0x00 is special echo command and should not be used.

flags:
[bit 8 | bit 7 | bit 6 | bit 5   ]
[reserved | reserved | reserved | reserved   ]

[bit 4 | bit 3 | bit 2 | bit 1   ]
[reserved | INTEGRITY_STAMP | SUPPRESS_REPLY_HEADER | EXTANDED_HEADER]

EXTANDED_HEADER : should be 0 for now.

SUPPRESS_REPLY_HEADER:
if 0:
  reply will include header: [header, data]. this is recommended option.
if 1:
  no header inserted in reply.   reply structure: [data]

INTEGRITY_STAMP:
if 0:
  tail will not include integrity stamp.
if 1:
  tail will include 4 bytes to check message integrity: 0x1a 0x2a 0x3a 0x4a

2. Reply
reply syntax: [header, data]

header =
[byte 1 | byte 2 | byte 3 | byte 4   ]
[**msg_size** LSB | msg_size MSB | 0x00 | replyStatus   ]

message size (**msg_size**) includes size of header and data.

replyStatus :
  0x00 - NO ERROR
  0x01 - command not found
  0x02 - test of integrity stamp failed
  0x03 - message length is too long