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Packet structure

ETHERNET: preample (8 bytes), SOP(1 byte) ,destination (6 bytes)

then source (6 bytes), Ether type (2 bytes), then the message and last 4 bytes is for CRC.

then IFGS equals the number of IFGS in config file. (I made the payload random)

ECPRI: (protocol version +reserved +C) 1 byte

Message type (1 byte=0)

Payload size (2 bytes) then payload

Test case 1: A screenshot of a computer

Description automatically generated

Log :

A screenshot of a computer program

Description automatically generated

Output:

A screen shot of a computer screen

Description automatically generated



I tested the ECEPRI packet

the first byte is for(protocol version +reserved +C)

Second byte is for(message type and it is equal 0)

Then 2 bytes for payload size then the payload size then the payload

Test Case 2:

A screenshot of a computer program

Description automatically generated

Log:

A screenshot of a computer program

Description automatically generated

Output: A screen shot of a computer screen

Description automatically generated



The first 8 bytes is preample(55555555) , SOP(fd) ,destination (102030302010)

then source (102030405060) ,Ether type (0800), then the message and last 4 bytes is for CRC

then IFGS equals number of IFGS in config file.(I made the payload random)

Testcase 3:

A screen shot of a computer screen

Description automatically generated

Log:

A screenshot of a computer program

Description automatically generated

Output:

A computer screen with white numbers

Description automatically generated



I made the packet size small to show how the payload size is calculated correctly

Test case 4: A screenshot of a computer

Description automatically generated

Log:

A screenshot of a computer program

Description automatically generated

Output:

A screenshot of a computer code

Description automatically generated

I tried Random so the packet can be ETHERNET or ECPRI now it is ECPRI but if we try again again it can generate Ethernet