

Multiplexing Protocol

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IEN-72

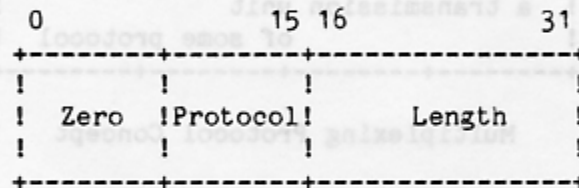
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Multiplexing Protocol

Introduction

This Multiplexing Protocol is defined to allow the combining of transmission units of different higher level protocols in one transmission unit of a lower level protocol in packet-switched computer communication in the environment of an interconnected set of computer networks. This protocol assumes that the Internet Protocol [1] is used as the underlying protocol.

Format



Multiplexing Header Format

Fields

Zero is always zero.

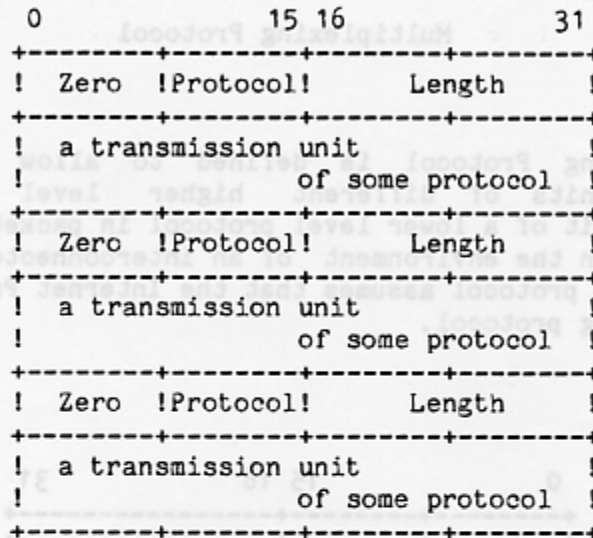
Protocol is the number of the following lower level protocol.

Length is the length in octets of the following protocol block.

Multiplexing Protocol
Example

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Example

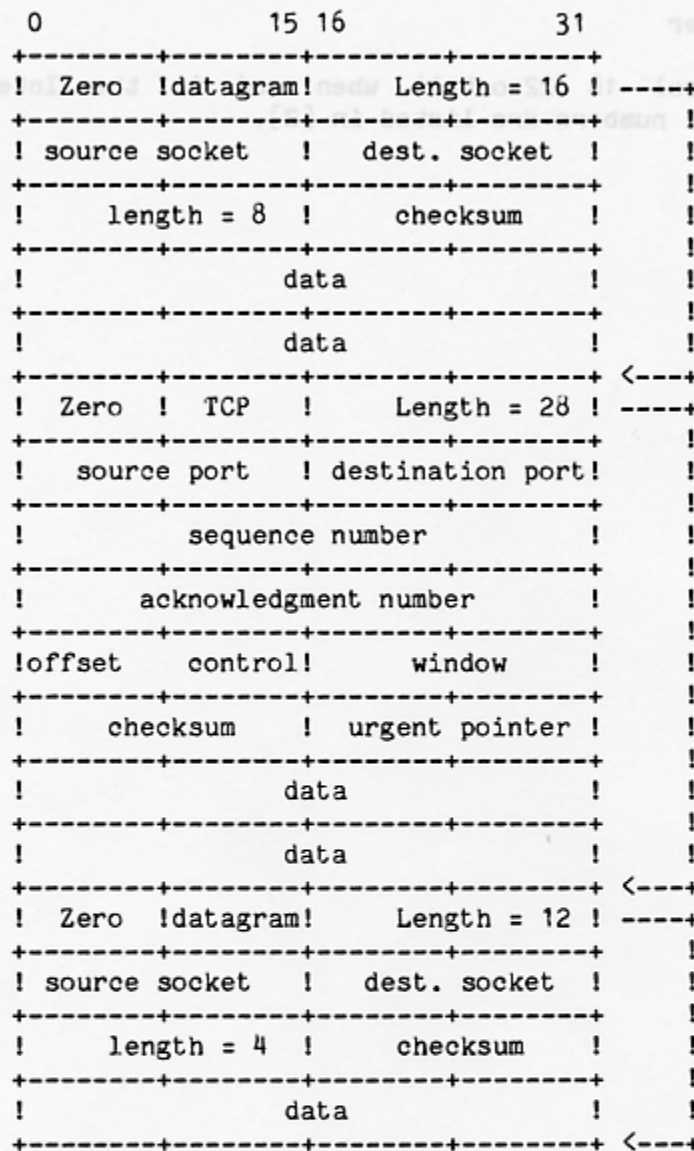


Multiplexing Protocol Concept

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Multiplexing Protocol Example



Multiplexing Protocol Example

Protocol Application

The major use of this protocol is to allow several transmission units from differing (or the same) higher level protocols to be combined into one transmission unit of a lower level protocol.

Multiplexing Protocol
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Protocol Number

Protocol Number

This is protocol 18 (22 octal) when used in the Internet Protocol.
Other protocol numbers are listed in [2].



Multiplexing Protocol Example

Protocol Application

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References

- [1] Postel, J., "Internetwork Protocol Specification -- Version 4," IEN-54, USC-Information Sciences Institute, September 1978.
- [2] Postel, J., "Assigned Numbers," USC-Information Sciences Institute, RFC-750, NIC-45500, September 1978.