# v. ALACRITECH, INC.

Case Nos.: IPR2018-00234, IPR2018-01307, IPR2018-00403
U.S. Patent No. 8,805,948 B2

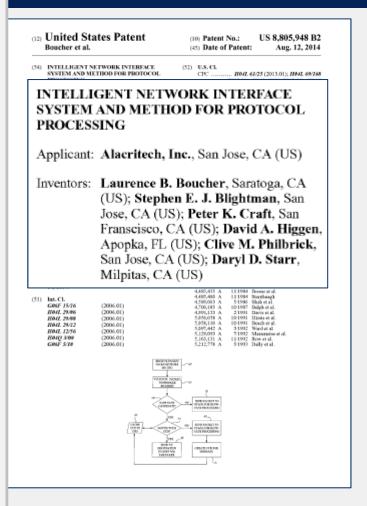
Patent Owner's Demonstratives

Hearing: March 4, 2019

**DEMONSTRATIVE EXHIBIT – NOT EVIDENCE** 

-00234 PO Demonstrative, 1

# Overview of the '948 Patent



Ex. 1001 ("'948 Patent")

#### (57) ABSTRACT

A system for protocol processing in a computer network has an intelligent network interface card (INIC) or communication processing device (CPD) associated with a host computer. The INIC or CPD provides a fast-path that avoids host protocol processing for most large multipacket messages, greatly accelerating data communication. The INIC or CPD also assists the host for those message packets that are chosen for processing by host software layers. A communication control block (CCB) for a message is defined that allows DMA controllers of the INIC to move data, free of headers, directly to or from a destination or source in the host. The CCB can be passed back to the host for message processing by the host. The INIC or CPD contains hardware circuits configured for protocol processing that can perform that specific task faster than the host CPU. One embodiment includes a processor providing transmit, receive and management processing, with full duplex communication for four fast Ethernet nodes.

'948 Patent, Abstract

The

Case No. IPI U.S. Patent N

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOAR

INTEL CORPORATION, and CAVIUM, INC.,

Petitioners,

V.

ALACRITECH INC.

Patent Owner

Case IPR2018-002341 U.S. Patent 8,805,948

PATENT OWNER'S EXHIBIT 2026 DECLARATION OF KEVIN ALMEROTH, PH.D. Open Systems Interconnection model (or "OSI model") is one well known example, describing a seven layer stack where a particular layer serves the layer above it and is served by the layers below it. The seven layers of the OSI model are:

Layer 7: Application Layer

Layer 6: Presentation Layer

Layer 5: Session Layer

Layer 4: Transport Layer

Layer 3: Network Layer

Layer 2: Data Link Layer

Layer 1: Physical Layer

petitioner in this proceeding

Alacritech Exhibit 2026

Ex. 2026 at 19-20

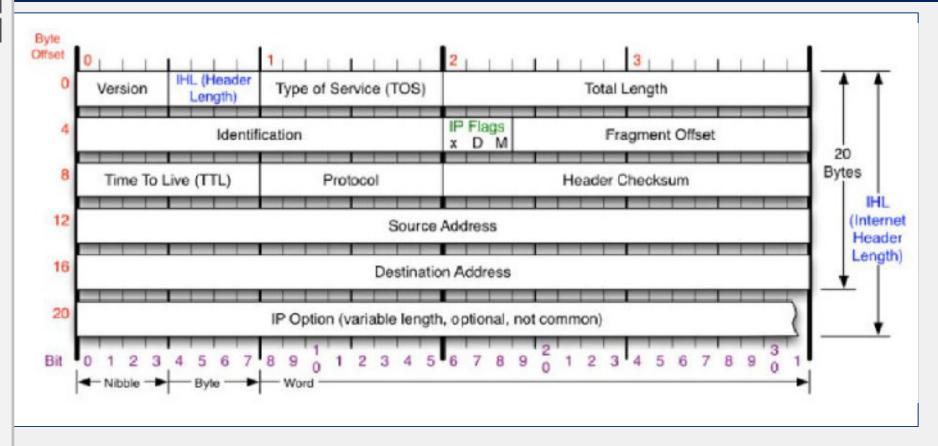
Cavium filed a Petition in Case IPR2018-00403 and has been

# Layer 3: Network Layer

56. The Internet Protocol (or "IP") is an example of a well-known network (layer 3) protocol. IPv4 was published as RFC 760 in January 1980 while its successor IPv6 was published as RFC 2460 in December 1998. The IP protocol describes a set of rules for dividing a message into multiple parts (called "IP packets") and then transmitting those packets from an IP sender to an IP destination across multiple routers or other links in a computer network. Each packet of information includes an IP address for its destination, analogous to sending a letter through the mail by placing the letter inside an envelope that has the recipient's postal address printed on it.

Ex. 2026 at 21

# P Header



Ex. 2042 at 2

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