Petitioner's Demonstrative Slides

Juniper Networks, Inc. & Palo Alto Networks, Inc. v. Packet I

Inter Partes Review of U.S. Pat. Nos. 6,771,646 & 6,6

June 9, 2021

IPR2020-00336, IPR2020-00337
Patent Trial and Appeal Board
United States Patent and Trademark Office

Table of Abbreviations

Abbreviation	Description
'725	Ex. 1002, U.S. Patent No. 6,665,725
'646	Ex. 1003, U.S. Patent No. 6,771,646
Weissman	Ex. 1006, Declaration of Dr. Jon B. Weissman [Petitioner's Ex
Quigley	Ex. 2061, Declaration of Cathleen T. Quigley [PO's Expert]
Riddle	Ex. 1008, U.S. Patent No. 6,412,000
Yu	Ex. 1011, U.S. Patent No. 6,625,150
[-00336/-00337] Pet.	IPR2020-00336, Paper 3/IPR2020-00337, Paper 3 (Petition)
[-00336/-00337] POPR	IPR2020-00336, Paper 7/IPR2020-00337, Paper 7 (Patent Ow Preliminary Response)
[-00336/-00337] DI	IPR2020-00336, Paper 21/IPR2020-00337, Paper 20 (Decisic
[-00336/-00337] POR	IPR2020-00336, Paper 26/IPR2020-00337, Paper 26 (Patent Response)
[-00336/-00337] Reply	IPR2020-00336, Paper 29/IPR2020-00337, Paper 30 (Petition Patent Owner's Response)
[-00336/-00337] POSR	IPR2020-00336, Paper 32/IPR2020-00337, Paper 32 (Patent Reply)

All citations within quotations omitted herein, and emphasis added unless otherwise indicated

'725 Claims	-00336 Grounds
Claims 10, 12, 13, 16, 17	Riddle in view of Baker
Claims 10, 12, 13, 16, 17	Riddle in view of Baker and Yu
Claims 10, 12, 13, 16, 17	Riddle in view of Baker and RFC1945

'646 Claims	-00337 Grounds
Claims 1-3, 7, 16, 18	Riddle in view of Ferdinand and Waker
Claims 1-3, 7, 16, 18	Riddle in view of Ferdinand, Wakeman
Claims 1-3, 7, 16, 18	Riddle in view of Ferdinand, Wakeman

'725, Exemplary Claims 10 and 17

[10.pre]/[17.pre] A method of performing protocol specific operations on a packet passing thr[...] connection point on a computer network, the method comprising:

[10.1]/[17.1] (a) receiving the packet;

[10.2]/[17.2] (b) receiving a set of protocol descriptions for a plurality of protocols that conform[...] model, a protocol description for a particular protocol at a particular layer level including:

[10.3]/[17.3] (i) if there is at least one child protocol of the protocol at the particular layer level, [...] more child protocols of the particular protocol at the particular layer level, the packet including [...] particular child protocol of the particular protocol at the particular layer level information at one [...] locations in the packet related to the particular child protocol,

[10.4]/[17.4] (ii) the one or more locations in the packet where information is stored related to [...] protocol of the particular protocol, and

[10.5]/[17.5] (iii) if there is at least one protocol specific operation to be performed on the pack[...] particular protocol at the particular layer level, the one or more protocol specific operations to [...] on the packet for the particular protocol at the particular layer level; and

[10.6]/[17.6] (c) performing the protocol specific operations on the packet specified by the set [...] descriptions based on the base protocol of the packet and the children of the protocols used in[...]

[10.7] wherein the protocol specific operations include one or more parsing and extraction ope[...] packet to extract selected portions of the packet to form a function of the selected portions for [...] packet as belonging to a ==*conversational flow*==.

[17.7] wherein the packet belongs to a conversational flow of packets having a set of one or m[...] wherein the protocol specific operations include one or more state processing operations that [...] ==*state of the conversational flow of the packet,*== the state of the conversational flow of the pa[...] of the sequence of any previously encountered packets of the same conversational flow as the[...]

'646, Exemplary Claims 1 and 3

1. A packet monitor for examining packet passing through a connection point on network, each packets conforming to one or more protocols, the monitor compri

(a) a packet acquisition device coupled to the connection point and configured t packets passing through the connection point;

(b) a memory for storing a **database** comprising flow-entries for previously enco conversational flows to which a received packet may belong, **a conversational an exchange of one or more packets in any direction as a result of an activ corresponding to the flow**;

(c) a cache subsystem coupled to the flow-entry database memory providing for of flow-entries from the flow-entry database;

(d) a lookup engine coupled to the packet acquisition device and to the cache su and configured to lookup whether a received packet belongs to a flow-entry in th database, to looking up being the cache subsystem; and

(e) a state processor coupled to the lookup engine and to the flow-entry-databas the state processor being to perform any state operations specified for the **state** starting from the last encountered state of the flow in the case that the packet is existing flow, and to perform any state operations required for the initial state of in the case that the packet is from an existing flow.

3. A packet monitor according to claim 2, wherein the cache subsystem is an **as cache subsystem** including one or more content addressable memory cells (C

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