UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

NOKIA CORP. AND NOKIA OF AMERICA CORP. Petitioners

V.

PACKET INTELLIGENCE LLC, Patent Owner

Case: IPR2019-01290

U.S. Patent No. 6,651,099

PETITION FOR *INTER PARTES* REVIEW UNDER 35 U.S.C. §311-319 AND 37 C.F.R. §42

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	B. "State of the Flow"	
	A. "State Operations"	
-	B. "Flow-entry database"	
(C. "Parsing/Extraction Operations"	
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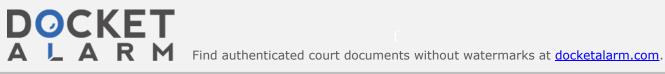
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B.	Count 1:	Riddle in View of Cheriton and Bruins Renders Claims 1, 2, 4,
	and 5 as	Obvious33
	1.	Claim 1
	a)	Limitation [1 Pre] "A packet monitor for examining packets passing through a connection point on a computer network in real-time, the packets provided to the packet monitor via a packet acquisition device connected to the connection point, the packet monitor comprising:"
	b)	Limitation [1a] "(a) a packet-buffer memory configured to accept a packet from the packet acquisition device;"36
	c)	Limitation [1b] "(b) a parsing/extraction operations memory configured to store a database of parsing/extraction operations that includes information describing how to determine at least one of the protocols used in a packet from data in the packet;" 38
	d)	Limitation [1c] "(c) a parser subsystem coupled to the packet buffer and to the pattern/extraction operations memory, the parser subsystem configured to examine the packet accepted by the buffer, extract selected portions of the accepted packet, and form a function of the selected portions sufficient to identify that the accepted packet is part of a conversational flow-sequence;"
	e)	Limitation [1d] "(d) a memory storing a flow-entry database including a plurality of flow-entries for conversational flows encountered by the monitor;"
	f)	Limitation [1e] "(e) a lookup engine connected to the parser subsystem and to the flow-entry database, and configured to determine using at least some of the selected portions of the accepted packet if there is an entry in the flow-entry database for the conversational flow sequence of the accepted packet;"
	g)	Limitation [1f] "(f) a state patterns/operations memory configured to store a set of predefined state transition patterns and state operations such that traversing a particular transition pattern as a result of a particular conversational flow-sequence of packets indicates that the particular conversational flow-sequence is associated with the operation of a particular



	application program, visiting each state in a traversal including
	carrying out none or more predefined state operations;"53
h)	Limitation [1g] "(g) a protocol/state identification mechanism
	coupled to the state patterns/operations memory and to the
	lookup engine, the protocol/state identification engine
	configured to determine the protocol and state of the
	conversational flow of the packet; and"
i)	Limitation [1h] "(h) a state processor coupled to the flow-entry
1)	database, the protocol/state identification engine, and to the
	state patterns/operations memory, the state processor,
	configured to carry out any state operations specified in the
	state patterns/operations memory for the protocol and state of
	the flow of the packet,"59
j)	Limitation [1i] "the carrying out of the state operations
	furthering the process of identifying which application
	program is associated with the conversational flow-sequence
	of the packet, the state processor progressing through a series
	of states and state operations until there are no more state
	operations to perform for the accepted packet, in which case
	the state processor updates the flow-entry, or until a final state
	is reached that indicates that no more analysis of the flow is
	required, in which case the result of the analysis is
2	announced."
2.	Claim 2
a)	Limitation [2] "A packet monitor according to claim 1,
	wherein the flow-entry includes the state of the flow, such that
	the protocol/state identification mechanism determines the
	state of the packet from the flow-entry in the case that the
	lookup engine finds a flow-entry for the flow of the accepted
	packet."63
3.	Claim 4
a)	Limitation [4a] "A packet monitor according to claim 1,
α)	further comprising: a compiler processor coupled to the
	parsing/extraction operations memory, the compiler processor
	configured to run a compilation process that includes:"65
1-)	• • •
b)	Limitation [4b] "receiving commands in a high-level protocol
	description language that describe the protocols that may be
	used in packets encountered by the monitor, and"66
c)	Limitation [4c] "translating the protocol description language
	commands into a plurality of parsing/extraction operations that



IX	CONCLUS	ION	80
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	b)	conversational flow-sequences associated with an application program,"	68 ations
		wherein the protocol description language commands also describe a correspondence between a set of one or more application programs and the state transition patterns/operations that occur as a result of particular	
	4. a)	Claim 5Limitation [5a] "A packet monitor according to claim 4,	
		are initialized into the parsing/extraction operations mem	•



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