1	Case 3:19-cv-01607-TSH Document 1	Filed 03/27/19 Page 1 of 12				
1	STEVEN A. NIELSEN, CALIFORNIA STATE BAR NO. 133864 (STEVE@NIELSENPATENTS.COM)					
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3	LARKSPUR, CA 94939-1743 TELEPHONE:(415) 272-8210					
4	Attorneys for Plaintiff					
5	OROSTREAM LLC, a Texas limited liability corporation					
6 7	UNITED STATES	DISTRICT COURT				
	NORTHERN DISTRICT OF CALIFORNIA					
8 9	SAN FRANCISCO DIVISION					
9 10		PATENT				
10	OROSTREAM LLC,	Case No				
	Plaintiff,	ORIGINAL COMPLAINT FOR				
12 13	v. ACTIONTEC ELECTRONICS, INC.,	PATENT INFRINGEMENT AGAINST ACTIONTEC				
14		ELECTRONICS, INC.				
15	Defendant.	DEMAND FOR JURY TRIAL				
16	Plaintiff Orostream LLC files this Orig	ginal Complaint for Patent Infringement against				
17	Actiontec Electronics, Inc., and would respectfu	lly show the Court as follows:				
18	I. <u>THE</u>	PARTIES				
19	1. Plaintiff Orostream LLC ("Oros	tream" or "Plaintiff") is a Texas limited liability				
20		, ,				
21	company with its principal place of business at 3401 Custer Road, Suite 125-B, Plano, Texas					
22	75023.					
23	2. On information and belief, defendant Actiontec Electronics, Inc. ("Defendant"), is					
24	a corporation organized and existing under the laws of the State of California. Defendant has a					
25	place of business at 3301 Olcott St, Santa Clara, CA 95054.					
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	<u>-1-</u>					
	ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT AGAINST ACTIONTEC ELECTRONICS, INC.					

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II. JURISDICTION AND VENUE

3. This action arises under the patent laws of the United States, Title 35 of the United States Code. This Court has subject matter jurisdiction of such action under 28 U.S.C. §§ 1331 and 1338(a).

4. On information and belief, Defendant is subject to this Court's specific and general personal jurisdiction, pursuant to due process and the California Long-Arm Statute, due at least to its business in this forum, including at least a portion of the infringements alleged herein. Furthermore, Defendant is subject to this Court's specific and general personal jurisdiction because Defendant is a California corporation.

11 5. Without limitation, on information and belief, within this State and this District, 12 Defendant has used the patented inventions thereby committing, and continuing to commit, acts 13 of patent infringement alleged herein. In addition, on information and belief, Defendant has 14 derived revenues from its infringing acts occurring within California and the Northern District of 15 California. Further, on information and belief, Defendant is subject to the Court's general 16 17 jurisdiction, including from regularly doing or soliciting business, engaging in other persistent 18 courses of conduct, and deriving substantial revenue from goods and services provided to 19 persons or entities in California and the Northern District of California. Further, on information 20 and belief, Defendant is subject to the Court's personal jurisdiction at least due to its sale of 21 products and/or services within California and the Northern District of California. Defendant has 22 committed such purposeful acts and/or transactions in California and the Northern District of 23 24 California such that it reasonably should know and expect that it could be haled into this Court as 25 a consequence of such activity.

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belief, Defendant is incorporated in California, and it has a place of business within this District.

Venue is proper in this district under 28 U.S.C. § 1400(b). On information and

On information and belief, from and within this District Defendant has committed at least a
 portion of the infringements at issue in this case.

7. For these reasons, personal jurisdiction exists and venue is proper in this Court under 28 U.S.C. § 1400(b).

III. <u>COUNT I</u> (PATENT INFRINGEMENT OF UNITED STATES PATENT NO. 5,768,508)

8. Plaintiff incorporates the above paragraphs herein by reference.

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9. On June 16, 1998, United States Patent No. 5,768,508 ("the '508 Patent") was duly and legally issued by the United States Patent and Trademark Office. The '508 Patent is titled "Computer Network System and Method for Efficient Information Transfer." A true and correct copy of the '508 Patent is attached hereto as Exhibit A and incorporated herein by reference.

14 10. Orostream is the assignee of all right, title and interest in the '508 patent,
15 including all rights to enforce and prosecute actions for infringement and to collect damages for
16 all relevant times against infringers of the '508 Patent. Accordingly, Plaintiff possesses the
17 exclusive right and standing to prosecute the present action for infringement of the '508 Patent
19 by Defendant.

11. The '508 patent has been cited as prior art during the prosecution history of over
 100 subsequently-issued United States patents, including patents assigned to IBM, Intel,
 Facebook, Gateway, Hitachi, Microsoft, Nokia, Oracle, and Veritas Software.

12. <u>Direct Infringement.</u> Upon information and belief, Defendant has been directly
infringing at least claim 26 of the '508 patent in California and the Northern District of
California and elsewhere in the United States, by using Wi-Fi routers that prioritize Internet
traffic, including Gigabit Wireless Router ("Accused Instrumentality"), to perform a method of
connecting an information provider and a user node of a computer network, performed by a

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1 The Accused Instrumentality performs registering the user node (e.g., an master program. 2 Internet enabled user device such as a laptop, mobile phone) at a master node (e.g., the Accused 3 Instrumentality). The user node (e.g., an Internet enabled user device such as a laptop, mobile 4 phone) registers with the Accused Instrumentality by connecting (wired or wirelessly) with the 5 accused instrumentalities (with or without using a password). 6 13. The Accused Instrumentality performs receiving, through the master node (e.g., 7 the Accused Instrumentality), a node ID (e.g., MAC address) from the user node (e.g., an 8 9 Internet enabled user device such as laptop, mobile phone). (See. a e.g., 10 https://www.actiontec.com/wp-content/uploads/2017/02/R3000-_ProductSheet.pdf; 11 https://fccid.io/LNQR3000/User-Manual/Quick-Start-2541450.pdf; 12 https://data2.manualslib.com/pdf5/105/10460/1045927-13 actiontec/r3000.pdf?e204003e021ca5bddfb945220f75e095). A MAC (Media Access Control) 14 address is a unique alpha-numeric identifier used to distinguish a device from others on a 15 network. (See, e.g., id.; https://technet.microsoft.com/en-us/library/cc757419(v=ws.10).aspx). 16 17 14. The Accused Instrumentality accesses a master database for profile information 18 corresponding to the node ID. For example, the Accused Instrumentality accesses an internal 19 table or a database for data to be appropriately transmitted to a particular user device that made 20 the request for the data. The internal table or database is accessed for profile information, for 21 example, a DHCP lease table is maintained in the Accused Instrumentality which stores profile 22 information available to the Accused Instrumentality such as a MAC address, IP address, or 23 24 device name corresponding to a user device. The Accused Instrumentality forms the internal 25 table/database with the available profile information corresponding to the node ID, such as the 26 MAC address. (See, e.g., https://www.actiontec.com/wp-content/uploads/2017/02/R3000-

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ProductSheet.pdf;

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https://fccid.io/LNQR3000/User-Manual/Quick-Start-2541450.pdf;

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https://data2.manualslib.com/pdf5/105/10460/1045927-

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actiontec/r3000.pdf?e204003e021ca5bddfb945220f75e095).

3 15. The Accused Instrumentality transmits to the user node (e.g., an Internet enabled 4 user device such as a laptop, mobile phone), through the master node (e.g., the Accused 5 Instrumentality), a target information reference (e.g., address information for accessing a web 6 page of a file categorized in high priority group that a user requested) corresponding to the 7 accessed profile information (e.g., requested content is tied to the IP address of the particular 8 9 user device that requested it). The target information reference (e.g., address information 10 identifying a server or computer that a user will need to obtain information from in order to 11 access a web page or an FTP file) is a pointer to target information to be delivered to the user 12 node (e.g., a web page or FTP file to be downloaded to an Internet enabled user device such as a 13 laptop, mobile phone, etc.) while transferring non-target information without additional 14 communication delay (e.g., higher priority applications such as video conferencing (audio/video) 15 and IP phone access, which the accused instrumentality gives a higher priority class) will be 16 17 prioritized (e.g., high priority group is "real-time" whereas low priority group is "non-real 18 time").

For example, the Accused Instrumentality will receive address information

pointing to the server or computers delivering content (e.g., data packets sent from other servers

or computers will contain the IP address of the server/computer in the data packet's header).

These data packets are forwarded to the appropriate device (which requested access to the

Internet information) based upon a destination IP address belonging to a particular device

(corresponding to the accessed profile information for the particular device that requested access

to the Internet information, or the device seeking to receive data from a particular Internet

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address) that is also within the header. The Accused Instrumentality will reference its routing 2 table in order to forward data packets to an addressed device accordingly.

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17. Furthermore, the Accused Instrumentality has QOS settings that allow 4 prioritization of certain Internet traffic while allowing other traffic to continue. For example, a 5 file download (e.g., target information such as basic internet access, FTP access, or Database 6 access that are in low priority group and therefore "non-real time") will be delivered to the user 7 device while transferring non-target information without additional communication delay (video 8 9 conferencing (audio/video) and IP Phone access data (in high priority group)) is prioritized and 10 transferred without delay). The Accused Instrumentality can classify particular wireless data 11 packets as network traffic that is non-real time sensitive (e.g., target information) and place a 12 lower priority on the transfer of target information (*e.g.*, background activity such as downloads) 13 so as not to delay the continued transfer of non-target information (e.g., foreground activity such 14 as a video conferencing (audio/video) and IP Phone access). 15

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- Four 10/100/1000 BaseT Ethernet LAN Two USB 3.0 Host Port Wireless - 802.11ac 4x4 antenna configuration 802.11n 3x3 antenna configuration - 802.11 b/g · Multiple SSID -WPS -Wireless Security -Wi-Fi Protected Access (WPA, WPA2 supporting AES and TKIP encryption) -WEP 64 and 128 bit encryption - Pre-Shared Key (PSK) MAC Address Filtering Remote Management - User-enable Remote Management - TR069 Carrier Remote Management - TR064 Local Management Advanced Security Firewall

- One 10/100/1000 BaseT Ethernet WAN

- Stateful Packet Inspection - NAT - Website Blocking

Interfaces

- Web Service Blocking
- Access Control
- Denial of Service (DOS) Protection
- Intrusion Detection IP Protocol Filtering
- QoS Support DSCP prioritization **ToS prioritization**

- 6 -**ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT** AGAINST ACTIONTEC ELECTRONICS, INC.

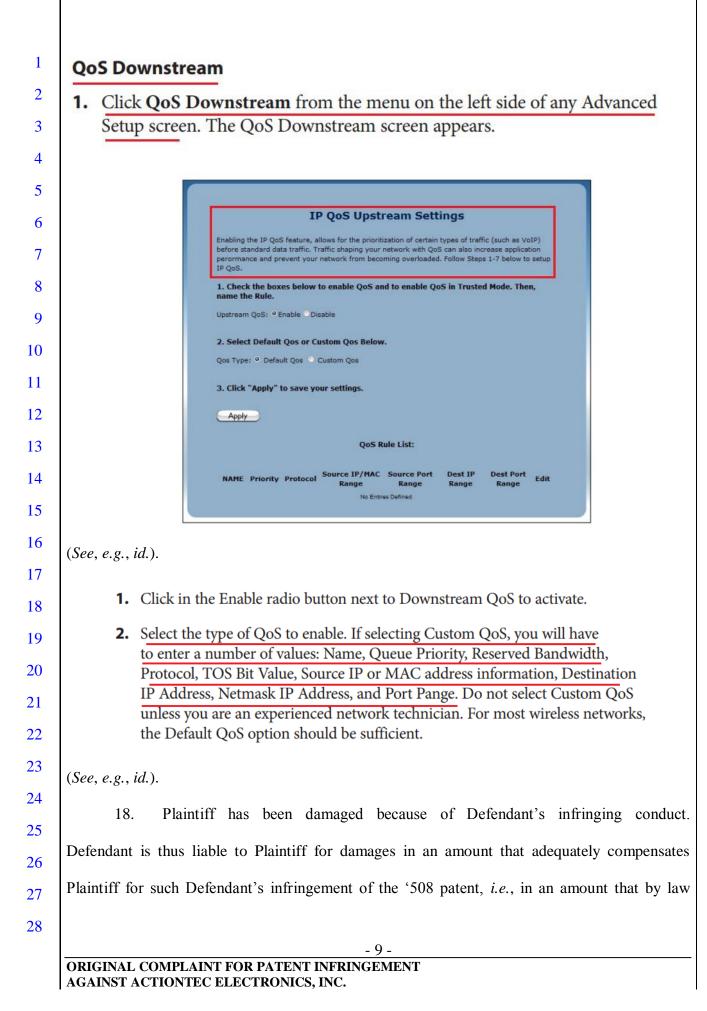
Case 3:19-cv-01607-TSH Document 1 Filed 03/27/19 Page 7 of 12 (See, e.g., https://fccid.io/LNQR3000/User-Manual/Quick-Start-2541450.pdf). 1 2 QoS Settings 3 The QoS Settings screens allow you to prioritize certain types of data traffic (video, for example) over other data traffic on the R3000's network. Both incoming data 4 traffic (QoS Upstream) and outgoing data traffic (QoS Downstream) can be configured. 5 (See, e.g., https://data2.manualslib.com/pdf5/105/10460/1045927-6 actiontec/r3000.pdf?e204003e021ca5bddfb945220f75e095). 7 **MDSU Aggregation** 8 Enable/disable MDSU aggragation by clicking in the appropriate button. 9 **MPDU Aggregation** 10 Enable/disable MPDU aggragation by clicking in the appropriate button. 11 **WMM** 12 Enable/disable WMM by clicking in the appropriate button. 13 (See, e.g., id.). 14 15 Part 3 - User Priorities, Access Categories and Queues The first QoS design change implemented as part of the 802.11e amendment and WMM certification, are User Priorities, Access Categories, and Queuing Structures. 16 The IEEE 802.11e amendment defines 8 user priorities (UP) for class of service (CoS) definition. These user priorities were established 17 for layer 2 data link frame prioritization in alignment with earlier CoS standards including 802.1D (based on the work within the 802.1p task group). 18 These 8 user priorities are grouped into 4 access categories, containing two user priorities each. User priority 0 is placed into the Best Effort AC instead of the Background AC for backwards compatibility with non-QoS stations. This was done to preserve compatibility, as 19 the IEEE deemed QoS functionality as an optional component for certification citing the lack of need for QoS by many legacy devices and applications. The mapping between 802.1D, 802.11e UP, and Access Category is show below. 20 Table 9-1-UP-to-AC mappings 21 UP 22 802.1D (Same as Designation Priority AC 802.1D user designation (informative) priority) 23 BK AC_BK Background Lowest 1 24 AC_BK 2 Background _ 0 BE AC_BE Best Effort 25 3 EE AC_BE Best Effort AC_VI 4 CL Video 26 Highest 5 VI AC_VI Video 27 6 VO AC_VO Voice 7 AC_VO NC Voice 28 - 7 -**ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT**

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	IP QoS Upstream Settings				
	Enabling the IP QoS feature, allows for the prioritization of certain types of traffic (such as VoIP) before standard data traffic. Traffic shaping your network with QoS can also increase application perormance and prevent your network from becoming overloaded. Follow Steps 1-7 below to setup IP QoS.				
	1. Check the boxes below to enable QoS and to enable QoS in Trusted Mode. Then, name the Rule.				
	Upstream QoS: [•] Enable [•] Disable				
	2. Select Default Qos or Custom Qos Below.				
	Qos Type: ⁹ Default Qos ⁰ Custom Qos				
	3. Click "Apply" to save your settings.				
	Apply				
	QoS Rule List:				
NAME Priority Protocol Source IP/MAC Source Port Dest IP Dest Port Range Range Range Range					
No Entries Defined					
L (See, e	<i>2.g.</i> , <u>https://data2.manualslib.com/pdf5/105/10460/1045927-</u>				
	tec/r3000.pdf?e204003e021ca5bddfb945220f75e095).				
	<u>tec/13000.pdf?e204003e021ea50dd10943220175e095</u>).				
1.	Click in the Enable radio button next to Upstream QoS to activate.				
2.	Select the type of QoS to enable. If selecting Custom QoS, you will have to enter a number of values: Name, Queue Priority, Reserved Bandwidth, Protocol, TOS Bit Value, Source IP or MAC address information, Destination IP Address,				
	Netmask IP Address, and Port Pange. Do not select Custom QoS unless you are an experienced network technician. For most wireless networks, the Default				
(See, e	e.g., <i>id</i> .).				





1	cannot be less than would constitute a reasonable royalty for the use of the patented technology,					
2	together with interest and costs as fixed by this Court under 35 U.S.C. § 284.					
3	IV. JURY DEMAND					
4	Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of					
5	any issues so triable by right.					
6						
7	V. <u>PRAYER FOR RELIEF</u>					
8	WHEREFORE, Plaintiff respectfully requests that the Court find in its favor and against					
9	Defendant, and that the Court grant Plaintiff the following relief:					
10	a.	Judgment that one or more claims of United States Patent No. 5,768,508 have				
11		been infringed, either literally an Defendant;		l/or under the doctrine of equivalents, by		
12	b.	Judgment that Defendant accou	int for	and pay to Plaintiff all damages to and costs		
13		incurred by Plaintiff because conduct complained of herein;	by Plaintiff because of Defendant's infringing activities and other			
14 15	с.	That Plaintiff be granted pre-ju	dgmen	at and post-judgment interest on the damages		
15				ivities and other conduct complained of		
17	d.	That Plaintiff be granted such of	other a	nd further relief as the Court may deem just		
18	and proper under the circumstances.					
19						
20	March 27, 2019		By	<u>/s/Steven A. Nielsen</u> Steven A. Nielsen		
21	OF COUNSEL:			100 Larkspur Landing Circle, Suite 216		
22	David R. Bennett (Application for Admission <i>Pro Hac Vice</i> to be filed) Direction IP Law P.O. Box 14184 Chicago, IL 60614-0184 (312) 291-1667 dbennett@directionip.com			Larkspur, CA 94939 PHONE 415 272 8210		
23				E-MAIL: Steve@NielsenPatents.com		
24				Attorneys for Plaintiff Altair Logix LLC		
25						
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	ORIGINAL CO	OMPLAINT FOR PATENT INFRIN	<u>- 10 -</u> CEMEI	NT		
	AGAINST ACTIONTEC ELECTRONICS, INC.					

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JURY DEMAND						
Plaintiff, under Rule 38 of the Federal I	Rules	of Civil Procedure, requests a trial by jury of				
any issues so triable by right.						
March 27, 2019	By	/s/Steven A. Nielsen				
OF COUNSEL:	5	Steven A. Nielsen 100 Larkspur Landing Circle, Suite 216				
		Larkspur, CA 94939 PHONE 415 272 8210				
David R. Bennett (Application for Admission <i>Pro Hac Vice</i> to		E-MAIL: Steve@NielsenPatents.com				
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dbennett@directionip.com						
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AGAINST ACTIONTEC ELECTRONICS, INC.

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1	CERTIFICATE OF SERVICE		
2	I hereby certify that on March 27, 2019, I electronically filed the above documents with		
3	the Clerk of Court using CM/ECF which will send electronic notification of such filings to all		
4	registered counsel.		
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6	<u>/s/Steven A Nielsen</u> Steven A. Nielsen		
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