Case 8	18-cv-01279-DOC-JDE Document 14	Filed 08/10/18 Page 1 of 53 Page ID #:100
1	M. ELIZABETH DAY (SBN 17712	25)
2	eday@feinday.com	
3	DAVID ALBERTI (SBN 220265) dalberti@feinday.com	
4	SAL LIM (SBN 211836)	
5	slim@feinday.com	
6	mbelloli@feinday.com	
0	FEINBERG DAY ALBERTI LIN	1 &
/	BELLOLI LLP 1600 El Camino Real Suite 280	
8	Menlo Park, CA 94025	
9	Tel: 650.618.4360	
10	Fax: 650.618.4368 Attorneys for Uniloc 2017 LLC Un	iloc
11	Licensing USA LLC and Uniloc US	SA, Inc.
12	UNITED STA	TES DISTRICT COURT
13	CENTRAL DIS	TRICT OF CALIFORNIA
14	$UNII \bigcirc C 2017 \sqcup C UNII \bigcirc C$	CASE NO 8.18-CV-01279-DOC-IDE
15	LICENSING USA LLC and	CASE 110. 0.10-C V-01277-DOC-JDE
16	UNILOC USA, INC.	FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT
17	Plaintiffs,	
18	V.	DEMAND FOR JURY TRIAL
19	MICROSOFT CORPORATION,	
20	Defendant	
21		
22		
23		
24		
25		
26		
27		
28		
		ADIT CASENO 0.10 CU 01070 DOC 100
	FIK51 AMENDED COMPL	LAIN I - CASE NO. 8:18-CV-012/9-DOC-JDE

Plaintiffs Uniloc 2017 LLC, Uniloc Licensing USA LLC and Uniloc USA,
Inc. (collectively "Uniloc"), by and through the undersigned counsel, hereby file
this Amended Complaint and make the following allegations of patent infringement
relating to U.S. Patent Nos. 7,016,676, 7,075,917, 8,706,636 and 8,606,856 against
Defendant Microsoft Corporation ("Microsoft"), and allege as follows upon actual
knowledge with respect to themselves and their own acts and upon information and
belief as to all other matters:

8

NATURE OF THE ACTION

9 1. This is an action for patent infringement. Uniloc alleges that
10 Microsoft infringes U.S. Patent Nos. 7,016,676 (the "676 patent"), 7,075,917 (the
11 "917 patent"), 8,706,636 (the "636 patent") and 8,606,856 (the "856 patent),
12 copies of which are attached hereto as Exhibits A-D (collectively, "the Asserted
13 Patents").

- 14 2. Uniloc alleges that Microsoft directly and indirectly infringes the 15 Asserted Patents by making, using, offering for sale, selling and importing devices 16 and providing applications that: (1) include semiconductor chips with integrated 17 Bluetooth and Wi-Fi functionality such as the Microsoft Surface products, (2) operate in compliance with HSUPA/HSUPA+ standardized in UMTS 3 GPP 18 19 Release 6 and above, such as the Microsoft Surface Pro with LTE devices, and (3) 20 uniquely identify digital assets such as Microsoft Office 365. Uniloc further alleges 21 that Microsoft induces and contributes to the infringement of others. Uniloc seeks 22 damages and other relief for Microsoft's infringement of the Asserted Patents.
- 23

THE PARTIES

3. Uniloc 2017 LLC is a Delaware corporation having places of business
at 1209 Orange Street, Wilmington, Delaware 19801 and 620 Newport Center
Drive, Newport Beach, California 92660.

4. Uniloc Licensing USA LLC is a Delaware corporation having places

28

27

of business at 1209 Orange Street, Wilmington, Delaware 19801 and 620 Newport
 Center Drive, Newport Beach, California 92660.

- 5. Uniloc USA, Inc. is a Texas corporation having a place of business at
 Legacy Town Center I, Suite 380, 7160 Dallas Parkway, Plano Texas 75024.
- 5 6. Uniloc holds all substantial rights, title and interest in and to the6 Asserted Patents.
- 7 7. Upon information and belief, Defendant Microsoft Corporation is a 8 corporation organized and existing under the laws of the State of Washington, with at 9 least the following places of business in this District: 3 Park Plaza, Suite 1600, Irvine, 10 CA 92614; 3333 Bristol Street, Suite 1249, Costa Mesa, CA 92626; 578 The Shops at 11 Mission Viejo, Mission Viejo, CA 92691; 331 Los Cerritos Center, Cerritos, CA 12 90703; 13031 West Jefferson Blvd., Suite 200, Los Angeles, CA 90094; 2140 13 Glendale Galleria, JCPenney Court, Glendale, CA 91210; 10250 Santa Monica Blvd., 14 Space #1045, Los Angeles, CA 90067; 6600 Topanga Canyon Blvd, Canoga Park, CA 15 91303. Microsoft can be served with process by serving its registered agent for service of process in California: Corporation Service Company which Will Do 16 17 Business in California as CSC - Lawyers Incorporating Service, 2710 Gateway Oaks Dr., Ste. 150, Sacramento, CA 95833. 18
- 19

JURISDICTION AND VENUE

8. This action for patent infringement arises under the Patent Laws of the
United States, 35 U.S.C. § 1 et. seq. This Court has original jurisdiction under 28
U.S.C. §§ 1331 and 1338.

- 9. This Court has both general and specific jurisdiction over Microsoft
 because Microsoft has committed acts within the Central District of California
 giving rise to this action and has established minimum contacts with this forum
 such that the exercise of jurisdiction over Microsoft would not offend traditional
 notions of fair play and substantial justice. Defendant Microsoft, directly and
- 28

through subsidiaries, intermediaries (including distributors, retailers, franchisees
 and others), has committed and continues to commit acts of patent infringement in
 this District, by, among other things, making, using, testing, selling, licensing,
 importing and/or offering for sale/license products and services that infringe the
 Asserted Patents.

6

7

8

9

10. Venue is proper in this district and division under 28 U.S.C. §§
1391(b)-(d) and 1400(b) because Microsoft has committed acts of infringement in the Central District of California and has multiple regular and established places of

10

COUNT I – INFRINGEMENT OF U.S. PATENT NO. 7,016,676

11 11. The allegations of paragraphs 1-10 of this Complaint are incorporated12 by reference as though fully set forth herein.

business in the Central District of California.

13

14

15

16

12. The '676 patent, titled "Method, Network and Control Station For The Two-Way Alternate Control of Radio Systems Of Different Standards In the Same Frequency Band," issued on March 21, 2006. A copy of the '676 patent is attached as Exhibit A.

17

13. Pursuant to 35 U.S.C. § 282, the '676 patent is presumed valid.

18 Invented by Koninklijke Philips Electronics, N.V., the inventions of 14. 19 the '676 patent were not well-understood, routine or conventional at the time of the 20 invention. At the time of invention of the '676 patent, a national regulation 21 authority determined on what frequencies, with what transmission power and in 22 accordance with what radio interface standard a radio system was allowed to 23 transmit. '676 patent at 1:12-15. There was provided so-called ISM frequency 24 bands (Industrial Scientific Medical) where radio systems can transmit in the same 25 frequency band in accordance with different radio interface standards. Id. at 1:15-26 18. One example of this is the US radio system IEEE 802.11a and the European 27 ETSI BRAN HiperLAN/2. Id. at 1:18-20. The two radio systems transmit in the 28

1 same frequency bands between 5.5 GHz and 5.875 GHz with approximately the 2 same radio transmission method, but different transmission protocols. Id. at 1:20-3 23. In the event of interference, prior art systems were implemented for active 4 switching to another frequency within the permitted frequency band, for controlling 5 transmission power and for adaptive coding and modulation to reduce interference. 6 *Id.* at 1:23-28. These prior art systems suffered from drawbacks. *Id.* at 1:65-2:10. 7 For example, prior art systems and methods did not make optimum use and 8 spreading possible of the radio channels over the stations which transmit in 9 accordance with different standards. Id. The guarantee of the service quality 10 necessary for the multimedia applications is impossible in the case of interference caused by their own stations or stations of outside systems. Id. at 2:5-8. In the case 11 12 of alternating interference, the prior art systems did not work efficiently and occupy 13 a frequency channel even at low transmission rates. Id. at 2:8-10.

14 The inventive solution of the claimed inventions of the '676 patent 15. 15 provides an interface control protocol method that overcomes one or more problems of the prior art and makes efficient use of radio transmission channels. Id. at 2:11-16 22. For example, the invention provides a method that controls alternate use of the 17 18 common frequency band to provide certain predefined time intervals for the use of 19 the first and second radio interface standard and allocate the frequency band 20 alternately to the first radio interface standard and then to the second radio interface 21 standard in a type of time-division multiplex mode. Id. at 2:51-57. According to 22 the claimed invention, a control station controls the access to the common 23 frequency band for stations working in accordance with the first radio interface 24 standard and-renders the frequency band available for access by the stations 25 working in accordance with the second radio interface standard if stations working 26 in accordance with the first radio interface standard do not request access to the 27 frequency band. Id. at 6:29-36. This allows the common frequency band to be

28

utilized more effectively particularly when the demand for transmission capacity in
 accordance with the first and the second radio interface standard varies. *Id.* at 2:58 62.

,

4 16. A person of ordinary skill in the art reading the '676 patent and its 5 claims would understand that the patent's disclosure and claim are drawn to solving a specific, technical problem arising from the evolution of radio communications 6 7 standards that are designed to operate over the same frequency band. Moreover, a 8 person of ordinary skill in the art would understand that the claimed subject matter 9 of the '676 patent presents advancements in the field of radio communications 10 standards, such as 802.11 ("Wi-Fi"), and, more particularly, alternate control of 11 radio systems of different standards in the same frequency band. Indeed, the time 12 of invention is approximately four years after the 802.11 standard was first released 13 in June of 1997. And, as detailed by the specification, the prior art interference 14 control systems suffered drawbacks such that a new and novel interface-control 15 protocol method was required. The inventions of the '676 patent do not and cannot apply to human behavior and are indigenous to the then nascent field of alternate 16 17 control of radio systems of different standards in the same frequency band.

18 17. In light of the foregoing, a person of ordinary skill in the art would
understand that claim 1 of the '676 patent is directed to an interference control
protocol method for a radio system that uses a common frequency band
alternatively for multiple interface standards. Moreover, a person of ordinary skill
in the art would understand that claim 1 of the '676 patent contains the inventive
concept of an interference control protocol method for a radio system that uses
common frequency band alternatively for multiple interface standards.

18. On information and belief, Microsoft makes, uses, offers for sale, and
sells in the United States and imports into the United States Microsoft Surface
products containing a combined Bluetooth/Wi-Fi chip solution, such as the Marvell

5

Case 8:18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 7 of 53 Page ID #:106

Avastar 88W8897 (collectively the "Accused Infringing Devices").

1

2

3

4

5

6

7

21

24

25

26

27

28

19. Upon information and belief, the Accused Infringing Devices infringe at least claim 1 in the exemplary manner described below.

The Accused Infringing Devices practice an interface-control protocol 20. method for a radio system with at least one common frequency band that is provided for alternate use by a first and a second radio interface standard. For example, Microsoft Surface products include chips with integrated Bluetooth and



Wi-Fi functionality, such as the chips from the Marvell Avastar Family of products. 20 Source: https://www.ifixit.com/Teardown/Microsoft+Surface+Pro+4+Teardown/51568 21. The Microsoft Surface products perform an interface control method 22 that provides for alternate use of the 2.4 GHz frequency band, which is used by a 23

first (e.g., "Bluetooth") and second (e.g., "Wi-Fi") interface standard.

FIRST AMENDED COMPLAINT - CASE NO. 8:18-CV-01279-DOC-JDE

Similarly, when Wi-Fi and Bluetooth® are put into the same device-particularly a smaller handheld type-the signals transmitted can 1 cause interference with each other, thereby disrupting the "conversation." As these two wireless technologies continue to permeate the consumer electronics market, people continue to ask "Can these Wi-Fi 2 and Bluetooth coexist in a single device?" The answer is yes. This white paper discusses the emergence of Wi-Fi and Bluetooth technologies on a single integrated circuit (IC) for use in today's 3 popular handheld devices. It explains the potential challenges of competing wireless signals, as well as innovative design techniques to help original equipment manufacturers (OEMs) overcome potential issues and rapidly develop cost-effective consumer devices. Finally, it expands on the advantages that Marvell's Avastar® family of multi-functional radios (MFRs) have over competing devices 4 available in the market today. 5 The Increasing Popularity of Wi-Fi and Bluetooth--Together Wi-Fi and Bluetooth are two of the most widely used wireless technologies in consumer electronic devices. Although devices including 6 these two technologies can use separate ICs on an embedded platform, with the latest advances in technology innovation, it is possible to co-locate Wi-Fi and Bluetooth devices on one IC, thereby reducing cost, size and time-to-market. 7 These technologies operate in the 2.4GHz Industrial, Scientific and Medical Device band (ISM) band, but are disparate from each other in almost every manner. Wi-Fi devices operate on an asynchronous protocol and access the wireless medium using the Carrier Sense Multiple Access / Collision Avoidance (CSMA/CA) mechanism. With Bluetooth devices, the medium access time is slotted. Also, 8 the advent of 802.11n technology in handheld platforms poses the difficult challenge to accommodate the requirements of both Wi-Fi and Bluetooth links while ensuring optimal performance. 9 Source: Ronak Choski, Yes ! Wi-Fi and Bluetooth Can Coexist in Handheld Devices, Marvell 10 Semiconductor (March 2010) 11 12 22 The Accused Infringing Devices operate in accordance with a first 13 radio interface standard and/or a second radio interface standard. For example, 14 Microsoft Surface products with integrated Bluetooth / Wi-Fi chips communicate 15 with stations that operate using a first interface standard (e.g., Bluetooth) and/or 16 second (e.g., Wi-Fi) interface standard. Examples of Bluetooth stations include 17 Bluetooth peripherals such as mice, pens, keyboards, dials and others. Examples of 18 Wi-Fi stations include Wi-Fi modems, routers, access points (APs) and the like. 19 20 21

22

23

24

25

26

27

Case 8:18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 9 of 53 Page ID #:108

1 2	Surface Precision Mouse
3	\$89.99 Special pricing for eligible students, parents, teachers, and military. Check now
4	Add to cart Find in store
5	Free shipping, Free returns.
6	• • • • •
7	Overview Tech specs Reviews
8	
9	Tech specs
10	Interface USB 2.1, Bluetooth Low Energy 4.0/4.1/4.2 Wireless 2.40 GHz frequency range
11	frequency
12	Source: https://www.microsoft.com/en-us/p/surface-precision-
13	mouse/8qc5p0d8ddjt?activetab=pivot:techspecstab
14	Surface Pen - Platinum
15	\$99.99
16	\$89.99 Special pricing for eligible students, parents, teachers, and military. Check now
17	Choose your product: Platinum Burgundy
18	Black Cobalt Blue
19	Add to cart Find in store
20	nee srigging, nee reams.
21	Overview Tech specs Reviews
22	
23	Tech specs
24	Surface Studio Surface Laptop Surface Book
25	Surface Pro ³ Surface Pro 4 Surface Pro 3 Surface 3
26	Pen Tip Kit Connector type Bluetooth 4.0 Questions? Tat
27	Source: https://www.microsoft.com/en-us/p/surface
28	pen/8z15c82qmg6b/7X3T?activetab=pivot:techspecstab
_0	8
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE

Case 8;18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 10 of 53 Page ID #:109

	Surface Arc Mouse - Light
-	Gray
2	**** 30
3	\$79.99
1	\$71.99 Special pricing for eligible students, parents, teachers, and military. Check now
_	Choose your product: Light Gray Burgundy
5	Cobalt Blue
6	Add to cart Find in store
7	Free shipping. Free returns.
8	
9	
	Overview Tech specs Reviews
0	
1	Tech specs
2	Interface Bluetooth® 4.01/4.1
3	Source: https://www.microsoft.com/en-us/p/surface-arc-
4	mouse/8p5sv2rx3rn5/GGLX?activetab=pivot:techspecstab
5	
3	
6	\$83.99 Special pricing for eligible students, parents, teachers, and military. Check
7	now Add to cat. Find in store
8	Free shipping. There exists
9	Description Surface Dial is a completely new way to interact with technology and create in the
	most natural, immensive way. Store, customize, acces, navigate, and reimagine physical tools in the digital world – from concept to creation.
U	
1	Overview Tech specs Reviews
2	
3	Tech specs
1	Exterior Casing: Aluminum Color: Magnesium
- -	Dimensions Diat: 2.32 x 1.18 in (59 x 30 mm) (0 x H) Base: 2.12 x 0.15 in (59 x 4 mm) (0 x H) Table Date: 2.12 x 0.15 in (59 x 4 mm) (0 x H) Table Date: 2.12 x 0.15 in (59 x H)
5	Weight 140 g with batteries (z) Battery life 12 months typical (4-hour daily use)
6	Wireless Bluetooth Low Energy Frequency: 2-40 GHz Range: 2 meters
7	Capacitive-touchscreen detectable (Studio only) Questions? Talk to an
3	Source: <u>https://www.microsoft.com/en-us/p/surface-</u> <u>dial/925r551sktgn/d5ft?cid=msft_web_collection&activetab=pivot:techspecstab</u>
	9

	Commont Comforce to continuing a structure of
1	Connect Surface to a WIRELESS NETWORK Applies to: Surface Devices
2	
3	Get help for Surface running Windows 8.1.
4	Note
5	Some products might not be available in your country or region.
6	
7	With its built-in Wi-Fi, you can connect your Surface to a wireless network and browse the Internet, get apps from Microsoft Store, send email messages, and access other computers and devices on your network.
8	
9	Connect to a wireless network
10	For info about connecting your Surface to a wireless network using the built-in Wi-Fi, see Get online.
11	Notes
12	 Make sure that your modem is connected to a working phone jack or cable connection, either directly or through your router.
13	 Surface supports the Wireless-N standard. You'll be able to connect no matter what standard (Wi-Fi 802.11 a/b/g/n) your router is using. In addition, Surface Pro 3,
14	Surface Pro 4, and Surface Book support the Wireless-AC standard (Wi-Fi 802.11ac).If you're having trouble finding your wireless network in the list of available networks,
15	your wireless router might not be set to broadcast its network ID (SSID). To turn on SSID broadcasting, check the info that came with the wireless router. For more info
16	problems.
17	network.
18 10	Source: <u>https://support.microsoft.com/en-us/help/4023494/surface-connect-surface-to-a-wireless-network</u>
19 20	23 The Accused Infringing Devices include a control station which
20	controls the alternate use of the frequency hand. Microsoft Surface products with
21	integrated Plustooth / Wi Fi shing include a control station (e.g. circuitry within
22	the Maruell Avector family radio and related software) that controls the alternate
23	the Marven Avastar family radio and related software) that controls the alternate
24	use of the 2.4 GHz frequency band.
25 26	 Packet Traffic Arbiter (PTA). PTA is a dedicated hardware System-on-Chip (SoC) block that controls access of Wi-Fi and Bluetooth devices to the antenna. It does this through pre-programmed priority of packet transmissions and receptions. In a discrete solution (i.e., separate Wi-Fi and Bluetooth SoCs), a unique set of protocols (e.g., 2-wire, 3-wire, 4-wire) is followed between the SoCs through hardware signaling.
27	In an integrated Wi-Fi and Bluetooth SoC, however, there can be additional "handshakes" designed into this block. Marvell Wi- Fi/Bluetooth multi-function radio MFR devices, for example, are designed to optimize medium access time for maximum yield of Wi-Fi throughput and Bluetooth audio quality through packet arbitration. (See Figure 2 below.)
28	10
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE

Case 8_{il}18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 12 of 53 Page ID #:111



Solutions Catering to Offer Best-in-Class Overall User Experience 1 As Marvell has integrated the Wi-Fi and Bluetooth devices on a single silicon die, the Marvell's Avastar family of wireless connectivity solutions has mastered the coexistence technologies to offer world-class performance, leading to an overall user experience that 2 simultaneously delivers maximum Wi-Fi throughput with optimal Bluetooth voice quality. Among these coexistence technologies are: 3 Alignment of PS-Poll / Trigger frames with SCO / eSCO slots to optimize Rx traffic, as mentioned in the section above 4 Usage of larger Wi-Fi time window whenever available, especially during eSCO Dynamic Bluetooth-aware Wi-Fi rate adaptation scheme . 5 Interception of Bluetooth page/inquiry to yield for WLAN traffic Partition airtime between Bluetooth and Wi-Fi traffic to yield best performance possible 6 Coexistence for a multi-profile usage scenarios, for example, running HFP (i.e., SCO/eSCO) and Personal Area Network (PAN)over-Asynchronous Connectionless Link (ACL) simultaneously with Wi-Fi traffic 7 Scheme to sustain the overall network throughput in a multiple-client scenario (e.g., multiple WiFi+Bluetooth enabled smartphones in a small conference room connected to the same access point and paired with their individual headsets) 8 Wi-Fi and Bluetooth link-aware performance Source: Ronak Choski, Yes! Wi-Fi and Bluetooth Can Coexist in Handheld Devices, Marvell 9 Semiconductor (March 2010) 10 11 24. The Accused Infringing Devices include a control station that controls 12 the access to the common frequency band for stations working in accordance with 13 the first radio interface standard and renders the frequency band available for access by the stations working in accordance with the second radio interface standard if 14 15 stations working in accordance with the first radio interface standard do not request 16 access to the frequency band. 17 25. For example, Microsoft Surface products with integrated Bluetooth / 18 Wi-Fi chips include a control station (e.g., circuitry in the Marvell Avastar family 19 radio and related software) that controls the access to the common 2.4 GHz frequency band for stations working in accordance with the first radio interface 20 21 standard (Bluetooth). The controller in the Marvell Avastar family radio renders 22 the frequency band available for access by the stations working in accordance with 23 the second radio interface standard (e.g., Wi-Fi) when stations working in 24 accordance with the first radio interface standard (e.g., Bluetooth) do not request 25 access to the frequency band. The Marvell Avastar radio employs a coexistence 26 strategy that makes the shared 2.4 GHz frequency band available to Wi-Fi stations 27 communicating with Microsoft Surface only when Bluetooth stations are not 28

Case 8 18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 14 of 53 Page ID #:113

requesting access to the frequency band. For example, the control station provides
 access to the frequency band during times that the Bluetooth stations are not
 requesting access.

4

5

6

7

8

9

10

25

 PS-Poll and WMM Trigger Frames. One of the primary challenges with Wi-Fi and Bluetooth coexistence is controlling downlink traffic from the access point. Access points are usually unaware of ongoing Bluetooth traffic on the client Wi-Fi device. Downlink frames from an access point can arrive anytime, creating over-the-air collisions. This results either in very low Wi-Fi throughput or eventually leading to Wi-Fi link loss, depending on the type of access point. Therefore, it is important to control the downlink traffic from the access point.

This can be accomplished either by using PowerSave-Poll (PS-Poll) frames or Wi-Fi MultiMedia (WMM) Trigger frames. (See Figure 3) The former polls the access point one data packet at a time, whereas the latter can be used to download multiple frames at a time, although in different modes of operation. The former is used in IEEE Power Save mode, whereas the latter is used when the Wi-Fi device operates in WMM Power Save mode. These enhancements are particularly helpful when the client Wi-Fi device associates with an aggressively rate-dropping access point.

In an integrated Wi-Fi/ Bluetooth SoC, it is possible to line up these frames with the Bluetooth frames, as shown in the figure below, so that the audio quality does not suffer and the downlink Wi-Fi traffic is also sustained—thereby minimizing over-the-air collisions. This is quite challenging when a discrete set of Wi-Fi and Bluetooth SoCs are used.



20 As Marvell has integrated the Wi-Fi and Bluetooth devices on a single silicon die, the Marvell's Avastar family of wireless connectivit solutions has mastered the coexistence technologies to offer world-class performance, leading to an overall user experience that simultaneously delivers maximum Wi-Fi throughput with optimal Bluetooth voice quality.

- 21 Among these coexistence technologies are:
 - Alignment of PS-Poll / Trigger frames with SCO / eSCO slots to optimize Rx traffic, as mentioned in the section above
- 22 . Usage of larger Wi-Fi time window whenever available, especially during eSCO
- Dynamic Bluetooth-aware Wi-Fi rate adaptation scheme
 - Interception of Bluetooth page/inquiry to yield for WLAN traffic
- 24 Partition airtime between Bluetooth and Wi-Fi traffic to yield best performance possible
 - Coexistence for a multi-profile usage scenarios, for example, running HFP (i.e., SCO/eSCO) and Personal Area Network (PAN)over-Asynchronous Connectionless Link (ACL) simultaneously with Wi-Fi traffic
- Scheme to sustain the overall network throughput in a multiple-client scenario (e.g., multiple WiFi+Bluetooth enabled smartphones in a small conference room connected to the same access point and paired with their individual headsets)
 - Wi-Fi and Bluetooth link-aware performance

Source: Ronak Choski, *Yes! Wi-Fi and Bluetooth Can Coexist in Handheld Devices*, Marvell Semiconductor (March 2010)

13

1 26. Microsoft has infringed, and continues to infringe, at least claim 1 of 2 the '676 patent in the United States, by making, using, offering for sale, selling and/or importing the Accused Infringing Devices in violation of 35 U.S.C. § 271(a).

3

4 27. Microsoft also has infringed, and continues to infringe, at least claim 1 5 of the '676 patent by actively inducing others to use, offer for sale, and sell the Accused Infringing Devices. Microsoft's users, customers, agents or other third 6 7 parties who use those devices in accordance with Microsoft's instructions infringe 8 claim 1 of the '676 patent in violation of 35 U.S.C. § 271(a). Microsoft 9 intentionally instructs its customers to infringe through training videos, 10 demonstrations, brochures and user guides, such as those located at: 11 www.microsoft.com and https://support.microsoft.com. Microsoft is thereby liable 12 for infringement of the '676 patent under 35 U.S.C. § 271(b).

13 Microsoft also has infringed, and continues to infringe, at least claim 1 28. 14 of the '676 patent by offering to commercially distribute, commercially 15 distributing, and/or importing the Accused Infringing Devices which devices are used in practicing the processes, or using the systems, of the '676 patent, and 16 17 constitute a material part of the invention. Microsoft knows portions of the 18 Accused Infringing Devices to be especially made or especially adapted for use in 19 infringement of the '676 patent, not a staple article, and not a commodity of 20 commerce suitable for substantial noninfringing use. Microsoft is thereby liable for 21 infringement of the '676 Patent under 35 U.S.C. § 271(c).

22 29. Microsoft is on notice of its infringement of the '676 patent by virtue 23 of a letter from Uniloc to Microsoft dated July 24, 2018. By the time of trial, 24 Microsoft will have known and intended (since receiving such notice) that its 25 continued actions would actively induce and contribute to the infringement of at 26 least claim 1 of the '676 patent.

30. Upon information and belief, Microsoft may have infringed and

28

27

continues to infringe the '676 patent through other software and devices utilizing
 the same or reasonably similar functionality, including other versions of the
 Accused Infringing Devices.

4 31. Microsoft's acts of direct and indirect infringement have caused and
5 continue to cause damage to Uniloc and Uniloc is entitled to recover damages
6 sustained as a result of Microsoft's wrongful acts in an amount subject to proof at
7 trial.

8

<u>COUNT II – INFRINGEMENT OF U.S. PATENT NO. 7,075,917</u>

9 32. The allegations of paragraphs 1-10 of this Complaint are incorporated
10 by reference as though fully set forth herein.

33. The '917 patent, titled "Wireless Network With A Data Exchange
According to the ARQ Method," issued on July 11, 2006. A copy of the '917
patent is attached as Exhibit B.

14

34. Pursuant to 35 U.S.C. § 282, the '917 patent is presumed valid.

15 35. Invented by Koninklijke Philips Electronics, N.V., the inventions of 16 the '917 patent were not well-understood, routine or conventional at the time of the 17 invention. At the time of invention of the '917 patent, wireless communications 18 systems that implemented a hybrid Automatic Repeat Request (ARQ) suffered from 19 drawbacks. '917 patent at 1:10-67. According to hybrid ARQ methods, data sent 20 in Packet Data Units (PDU) by the Radio Link Control layer (RLC layer) are 21 additionally provided for the error correcting coding with an error control through 22 repetition of transmission. Id. at 1:18-21. This means that in the case of an error-23 affected reception of a packet data unit packed in a transport block coded by one of 24 the assigned physical layers, a received packet data unit affected by error is sent 25 anew. Id. at 1:21-25. In certain hybrid ARQ methods (e.g., types II and III), the 26 affected packet data unit will be buffered over long time spaces until an incremental 27 redundancy is requested and then, after a successful decoding, the reception may be

1 acknowledged as correct, especially when the receiving side is the network side, 2 while the physical layer and the RLC layer are usually located on different 3 hardware components. Id. at 1:44-50. At the time of the invention, it was desirable 4 to reduce these periods of time that the error-affected data would be buffered to 5 improve overall communication rates in the network. Id. at 1:64-67.

The inventive solution of the claimed inventions of the '917 patent 6 36. 7 provides a radio network controller and a terminal in a wireless network that 8 exchange data according to a hybrid ARQ method. The specific radio terminals and 9 controller of the '917 invention overcome one or more problems of the prior art. Id. 10 at 2:1-24. The wireless network components of the '917 patent transmit an 11 acknowledge command over a back channel (previously unknown) between a 12 physical layer of a transmitting side (for example, a radio network controller) and 13 the physical layer of a receiving side (for example, a terminal), which allows a 14 correct or error-affected transmission of a transport block to be announced to the 15 transmitting side much more rapidly than prior art systems. Id. at 2:28-36. As a result, a repetition of transmission with incremental redundancy may be performed 16 17 rapidly. Id. at 2:36-38. This enables the receiving side to buffer the received coded transport block affected by error more briefly because the additional redundancy 18 19 necessary for the correct decoding is available at an earlier instant. Id. at 2:39-42. 20 In this manner, the memory capacity or memory area needed on average for 21 buffering blocks affected by error is also reduced. Id. at 2:42-44.

22 37. A person of ordinary skill in the art reading the '917 patent and its 23 claims would understand that the patent's disclosure and claims are drawn to 24 solving a specific, technical problem arising in radio communication systems using 25 a hybrid ARQ data transmission method. Moreover, a person of ordinary skill in 26 the art would understand that the claimed subject matter of the '917 patent presents 27 advancements in the field of wireless networking and, more particularly, wireless

1 networks implementing hybrid ARQ data transmission methods. Indeed, the time 2 of invention was less than two months after the release of the document entitled, 3 "3rd Generation Partnership Project, Technical Specification Group Radio Access 4 Network, Report on Hybrid ARQ Type II/III (Release 2000), 3G TR 25.835 V0.0.2, 5 TSG-RAN Working Group 2 (Radio L2 and Radio L3), Sophia Antipolis, France, 21-15 August 2000," which described the specific types of hybrid ARQ network on 6 7 which the invention improves. And, as detailed by the specification, the prior 8 hybrid ARQ data transmission methods suffered drawbacks such that a new and 9 novel method was required. The inventions of the '917 patent are also indigenous 10 to the then nascent field of wireless networks implementing hybrid ARQ data 11 transmission methods.

12 38. In light of the foregoing, a person of ordinary skill in the art would 13 understand that claim 10 of the '917 patent is directed to a specific improvement on 14 wireless networks implementing hybrid ARQ data transmission methods. 15 Moreover, a person of ordinary skill in the art would understand that claim 10 of 16 the '917 patent contains the inventive concept of using abbreviated sequence 17 numbers and a back channel between a physical layer of a transmitting side (for 18 example, a radio network controller) and the physical layer of a receiving side (for 19 example, a terminal), which allows a correct or error-affected transmission of a 20 transport block to be announced to the transmitting side much more rapidly than 21 prior art systems.

39. On information and belief, Microsoft makes, uses, offers for sale, and
sells in the United States and imports into the United States user equipment that
operates in compliance with HSUPA/HSUPA+ standardized in UMTS 3 GPP
Release 6 and above, such as the Microsoft Surface Pro with LTE devices
(collectively the "Accused Infringing Devices").

40. Upon information and belief, the Accused Infringing Devices infringe

28

27

1	at least claim 10 of the '917 patent in the exemplary manner described below.		
2	41. The Accused Infringing Devices operate in a WCDMA network		
3	having a radio network controller and other user equipment (other UEs or further		
4	terminals). The Accused Infringing Devices have a physical layer for the		
5	transmission and reception of data. Section 6 shows that the UMTS terrestrial		
6	radio access network (UTRAN) includes a radio network controller.		
7			
8	6 UTRAN Architecture		
9	The UTRAN consists of a set of Radio Network Subsystems connected to the Core Network through the Iu.		
10	to the RNC through the Jub interface.		
11	A Node B can support PDD mode, TDD mode or dual-mode operation.		
12	The UTRAN architecture is shown in figure 4.		
13	Core Network		
14	- Iu - Iu		
15	UTRAN RNS RNS		
16			
17	Iub Iub Node B Node B		
18			
19			
20	Figure 4: UTRAN Architecture		
21	Source: $(3GPP TS 25 401 V6 9 0 (2006-12) pages 13-14)$		
22	42. The Accused Infringing Devices include a Oualcomm Snapdragon		
23	X16 LTE modem, which supports WCDMA/HSUPA functionality.		
24			
25			
26			
27			
28			
_ 5	18		
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE		

Case 8;18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 20 of 53 Page ID #:119

1	The Surface Pro with LTE Advanced brings cel	llular wireless conn	ectivity to the convertible	
2	tablet/laptop, offering speeds of up to 450Mbps.			
3	"When you want the ultimate in versatility and still want FIRST LOOK			
1	performance to move you forward, we bring th	ne new Surface		
4	Pro,' said Microsoft's hardware chief Panos Panay, speaking at			
2	Microsoft's Future Decoded conference in London.			
6	The LTE version of the Pro uses a Cat 9 moder	n with support		
7	for 20 cellular bands, and is expected to work	with a wide		
8	variety of 4G networks worldwide, rather than being limited to networks within a specific region. Surface Pro (2017): Small refinements to a familiar design			
9	The new machine has a seven-antenna Qualc	omm X16	Don't call it Surface Pro 5.	
10	Gigabit Class LTE modem, which is integrated	directly onto the	Surface Pro loses the	
11	motherboard to optimize its responsiveness w	hen recovering	kickstand, and adds	
12	from sleep and hibernation modes.		mostly subtle refinements.	
13	Source: https://www.zdnet.com/article/microsof	ts-new-surface-pro-	with-lte-and-450mbps-	
14	downloads-out-in-december/			
15	Supported Cellular Te	chnologies		
10	LTE FDD			
10	LTE TDD			
17	• LAA			
18	LIE Broadcast WCDMA (DR-DC)			
19	TD-SCDMA			
20	CDMA 1x			
21	• EV-DO			
21	GSM/EDGE			
22	Source: https://www.gualcomm.com/products/s	handragon/modeme	//a_lta/v16	
23	$\frac{12}{12} \qquad \qquad$	used Infringing D	$\frac{1}{10}$	
24	45. Figure I shows that the Acct		evices are part of a	
25	network and that the Accused Infringing I	Devices have a pl	nysical layer/ L1.	
26				
27				
28				
-	1	19		
	FIRST AMENDED COMPLAIN	T – CASE NO. 8	3:18-CV-01279-DOC-JD	





packet data unit sequence number"). Section 4.8 shows that the enhanced uplink
 data is HARQ codes in the physical layer for transmission.



Case 8 18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 24 of 53 Page ID #:123





1 50. Each MAC-es PDU ("coded transport blocks") has a transmission 2 sequence number, TSN, ("abbreviated sequence number") and the MAC-es PDU 3 with its TSN ("abbreviated sequence number") is stored at least within a HARQ 4 entity of the Accused Infringing Devices for potential HARQ retransmission. The 5 TSN is 6 bits ("length"), which is shorter ("abbreviated") than the AM RLC PDU 6 sequence number of 12 bits. The MAC-es PDUs, including the TSNs, are 7 transmitted to the serving radio network controller (SRNC) via the NodeB/base 8 station ("transmitted to the radio network controller").

9 51. The TSN length depends on the maximum number of MAC-es PDUs 10 to be stored unambiguously within a reordering buffer at the SRNC. The SRNC performs duplicate detection on the received MAC-es PDUs by using the TSN. If 11 12 two different MAC-es PDUs (not a duplicate) had the same TSN, the SRNC would 13 erroneously discard a correctly received MAC-es PDU. Thus, the TSN must be 14 uniquely associated with each MAC-es PDU (non-duplicate) in the reordering 15 buffer ("which can be shown unambiguously in a packet data sequence number"). To achieve this unique association, the TSN length must accommodate the 16 17 maximum number of MAC-es PDUs that can be stored in the reordering buffer. 18 The TSN length is 6 bits, which has values from 0 to 63 ("whose length depends on 19 the maximum number of coded transport blocks to be stored.") 20

20 52. Section 9.2.4.1 shows that the length of the TSN is 6 bits (which is
21 shorter than the 12-bit AMD PDU sequence number.)

22 9.2.4.1 MAC-es header parameters 23 Transmission Sequence Number (TSN): The TSN field provides the transmission sequence number for the MAC-es PDU. This information is 24 reordering purposes to support in-sequence delivery to higher layers. The length of the TSN field is 6 bits. 25 Source: 3GPP TS 25.321 V6.18.0 (2009-03), page 50 26 Section 11.8.1.2.1 shows that each MAC-es PDU is sequentially 53. 27 assigned an incremented sequence number to that each MAC-es PDU will have a 28 25



Case 8 18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 28 of 53 Page ID #:127



1	10.3.2.2. In-Sequence Delivery		
2	Similar to the case for HS-DSCH, the multiple hybrid ARQ processes of E-DCH		
3	cannot, in themselves, ensure in-sequence delivery, as there is no interaction between the processes. Also, in soft handover situations, data is received independently in several NodeBs and can therefore be received in the RNC in a		
4	different order than transmitted. In addition, differences in Iub/Iur transport delay can cause out-of sequence delivery to RLC. Hence, in-sequence delivery must be implemented on top of the MAC-e entity and a reordering entity in the		
5	RNC has been defined for this purpose in a separate MAC entity, the MAC-es. In		
6	E-DCH, the reordering is always performed per logical channel such that all data for a logical channel is delivered in-sequence to the corresponding RLC entity.		
7	This can be compared to HS-DSCH where the reordering is performed in configurable reordering queues.		
8	The actual mechanism to perform reordering in the RNC is implementation		
9	specific and not standardized, but typically similar principles as specified for the		
10	includes a Transmission Sequence Number (TSN), which is incremented for each		
11	transmission on a logical channel. By ordering the MAC-es PDUs based on TSN, in-sequence delivery to the RLC entities is possible.		
12	To illustrate the reordering mechanism consider the situation shown in Figure		
13	10.25. The MAC-es PDUs 0, 2, 3, and 5 have been received in the RNC while MAC-es PDUs 1 and 4 have not yet been received. The RNC can in this situation		
14	not know why PDUs 1 and 4 are missing and needs to store PDUs 2, 3, and 5 in the reordering buffer. As soon as PDU 1 arrives, PDU 1, 2, and 3 can be delivered		
15	to RLC.		
16	Figure 10.25. Reordering mechanism.		
10	or error in HARQ signaling		
1/	Delayed due to high number of retransmissions of PDU 1		
18			
19 20	Source: 3G Evolution HSPA and LTE for Mobile Broadband, §10.3.2.2		
21	57. The physical layer of the Accused Infringing Devices receives a		
22	HARQ codes MAC-hs PDU ("coded transport block") over high speed physical		
23	downlink shared channel(s), HS-PDSCH(s). As described in the '917 patent, the		
24	radio network controller sends downlink data using its base station ("radio network		
25	controller"). The Accused Infringing Devices check the transport block for errors		
26	in reception. In response to the error check, the Accused Infringing Devices send		
27	an ACK ("acknowledge command") or a NACK ("negative acknowledge		
28	command") over the high speed physical dedicated control channel, HS-PDCCH		
	28		
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JD		

Case 8;18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 30 of 53 Page ID #:129



Case 8_{ii}18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 31 of 53 Page ID #:130



1 61. Microsoft has infringed, and continues to infringe, at least claim 10 of 2 the '917 patent in the United States, by making, using, offering for sale, selling 3 and/or importing the Accused Infringing Devices in violation of 35 U.S.C. § 271(a).

4

62. Microsoft also has infringed, and continues to infringe, at least claim 5 10 of the '917 patent by actively inducing others to use, offer for sale, and sell the Accused Infringing Devices. Microsoft's users, customers, agents or other third 6 7 parties who use those devices in accordance with Microsoft's instructions infringe 8 claim 10 of the '917 patent, in violation of 35 U.S.C. § 271(a). Microsoft 9 intentionally instructs its customers to infringe through training videos, 10 demonstrations, brochures and user guides, such as those located at: 11 www.microsoft.com and support.microsoft.com. Microsoft is thereby liable for 12 infringement of the '917 patent under 35 U.S.C. § 271(b).

13 Microsoft also has infringed, and continues to infringe, at least claim 63. 14 10 of the '917 patent by offering to commercially distribute, commercially 15 distributing, or importing the Accused Infringing Devices which devices are used in practicing the processes, or using the systems, of the '917 patent, and constitute a 16 17 material part of the invention. Microsoft knows portions of the Accused Infringing 18 Devices to be especially made or especially adapted for use in infringement of the 19 '917 patent, not a staple article, and not a commodity of commerce suitable for 20 substantial noninfringing use. Microsoft is thereby liable for infringement of the 21 '917 Patent under 35 U.S.C. § 271(c).

22 Microsoft is on notice of its infringement of the '917 patent by virtue 64. 23 of a letter from Uniloc to Microsoft dated August 10, 2018. By the time of trial, 24 Microsoft will have known and intended (since receiving such notice) that its 25 continued actions would actively induce and contribute to the infringement of at 26 least claim 10 of the '917 patent.

65. Upon information and belief, Microsoft may have infringed and

28

27

continues to infringe the '917 patent through other software and devices utilizing
 the same or reasonably similar functionality, including other versions of the
 Accused Infringing Devices.

4 66. Microsoft's acts of direct and indirect infringement have caused and
5 continue to cause damage to Uniloc and Uniloc is entitled to recover damages
6 sustained as a result of Microsoft's wrongful acts in an amount subject to proof at
7 trial.

8

<u>COUNT III – INFRINGEMENT OF U.S. PATENT NO. 8,706,636</u>

9 67. The allegations of paragraphs 1-10 of this Complaint are incorporated
10 by reference as though fully set forth herein.

11 68. The '636 patent, titled "System and Method For Unique Digital Asset
12 Identification and Transaction Management," issued on April 22, 2014. A copy of
13 the '636 patent is attached as Exhibit C.

14

69. Pursuant to 35 U.S.C. § 282, the '636 patent is presumed valid.

15 Invented by Content Technologies LLC, the inventions of the '636 70. patent were not well-understood, routine or conventional at the time of the 16 17 invention. At the time of invention of the '636 patent, systems for distributing and tracking digital assets suffered from drawbacks. '636 patent at 1:24-2:8. For 18 19 example, watermarks were applied at the time the digital asset is created and used 20 for identification and enforcement purposes. Id. at 1:40-42. Unfortunately, the use 21 of watermarks alone was not sufficient to ensure that transfers of digital assets are 22 properly accounted for. Id. at 1:42-44. Another approach has been to encrypt 23 assets before distribution and the purchaser must acquire a key to unlock the asset 24 before use. Id. at 1:45-47. This places a great demand on customers and runs the 25 risk of increasing frustration levels. *Id.* at 1:47-48. This also requires secure key 26 management thus shifting the problems to another asset that must be managed. Id. 27 at 1:49-50.

1 71. The inventive solution of the claimed inventions of the '636 patent 2 overcomes the aforementioned disadvantages of the prior art by providing an 3 improved system and method for permitting rights holders to introduce digital 4 assets into a controlled distribution/tracking network under suitable terms of use 5 and other customized, flexible distribution conditions. Id. at 2:12-19. In 6 accordance with one aspect of the present invention, a digital asset is marked with a 7 unique serial number using steganographic techniques at the time the asset is 8 introduced into a system. Id. at 2:66-3:2. The digital asset is also marked with a 9 new unique serial number each time it is transacted within the system. Id. at 3:2-4. 10 Another aspect of the present inventions concerns a system for distributing digital 11 assets in a peer-to-peer connectable environment across a network, including 12 between a first peer network device and a second peer network device connected to 13 the Internet. Id. at 3:10-16.

14 72. A person of ordinary skill in the art reading the '636 patent and its 15 claims would understand that the patent's disclosure and claim are drawn to solving a specific, technical problem arising in the distribution of digital assets. Moreover, 16 17 a person of ordinary skill in the art would understand that the claimed subject 18 matter of the '636 patent presents advancements in the field of tracking of digital 19 assets over a network and, more particularly, to marking of a digital asset to link a 20 unique asset serial number to transaction, license, and rights management 21 information. And, as detailed by the specification, the prior systems for distributing 22 and tracking digital assets suffered drawbacks such that a new and novel system for 23 introducing, distributing and tracking digital assets in a manner that balances the 24 needs of rights holders and end users was required.

73. In light of the foregoing, a person of ordinary skill in the art would
understand that claim 1 of the '636 patent is directed to managing and tracking the
distribution of digital assets over a network by storing digital assets with a unique

1 identifier and creating additional unique identifiers for each new instance of a 2 digital asset and debiting customer accounts when an instance of the digital asset is 3 transferred to another computing device. Id. at 20:47-21:10. Moreover, a person of 4 ordinary skill in the art would understand that claim 1 of the '636 patent contains 5 the inventive concept of managing and tracking the distribution of digital assets over a network by storing digital assets with a unique identifier and creating 6 7 additional unique identifiers for each new instance of a digital asset and debiting 8 customer accounts when an instance of the digital asset is transferred to another 9 computing device. Id. at 20:47-21:10.

74. On information and belief, Microsoft makes, uses, offers for sale, and
sells in the United States and imports into the United States software products that
can be remotely downloaded, installed and activated, such as Microsoft Office 365
and operates content delivery networks (CDNs) for distributing, installing and
activating its software products (collectively the "Accused Infringing Products").

15 75. Upon information and belief, the Accused Infringing Products infringe16 at least claim 1 in the exemplary manner described below.

17 76. The Accused Infringing Products are managed by a networked asset
18 distribution system that provides software via the Office Content Distribution
19 Network (CDN) of servers.

Office 365

20

21

22

23

24

25

26

27

28

Here's a list of all the offline installers for the Office 365 family: to download them, click to the corresponding Download URL. It's worth repeating that these are absolutely legitimate links from an official Microsoft site, specifically from the MS Office CDN (officecdn.microsoft.com).

Source: <u>https://www.ryadel.com/en/ms-office-2016-365-official-iso-img-images-for-download-offline-install-product-key-required/</u></u>

77. The Accused Infringing Products' CDN servers execute code that

34

1	provides the download service for the Accused Infringing Products
1 2	provides the download service for the Accused mininging Froducts.
3	Content delivery networks
4	Applies To: Office 365 Admin, Microsoft 365 Business
5	Lies this information to leave about Operant Daliver Maturaly (ODNs) and how Office 205 leave and there
6	CDNs help keep Office 365 fast and reliable for end users. With CDNs, cloud services like Office 365 guickly download generic content, like icons, to your users' browser when they're using the service through
7	a web client.
8 9	Source: <u>https://support.office.com/en-us/article/content-delivery-networks-0140f704-6614-49bb-aa6c-89b75dcd7f1f</u>
10	78. The Accused Infringing Products' CDN servers enable storage of the
11	digital asset by supporting the download of the Accused Infringing Products' digital
12	asset. The servers enable a first user to store a first instance of the Accused
13	Infringing Products on the user's computing device.
14	
15	Download and install or reinstall
16	Office 365 or Office 2016 on a PC or
17	Mac
18	
19	Applies To: Office 2019, Office 2019 for Mac, Office 2016, Office for business, More
20 21	Source: <u>https://support.office.com/en-us/article/download-and-install-or-reinstall-office-365-or-office-2016-on-a-pc-or-mac-4414eaaf-0478-48be-9c42-23adc4716658</u>
22	79. The Accused Infringing Products have a first unique identifier
23	associated with the first instance of the digital asset because the first user of the
24	Accused Infringing Products is either automatically activated using at least the
25	serial number of the Accused Infringing Products or Microsoft also uses a unique
26	device ID related to the user's computing device.
27	
28	
	35
	FIK51 AMENDED COMPLAINT – CASE NO. 8:18-CV-012/9-DOC-JDE



Case 8;18-cv-01279-DOC-JDE	Document 14	Filed 08/10/18	Page 38 of 53	Page ID #:137

1			
2	How to share your Office 365 Home subscription benefits		
3	with others		
4	You can share your subscription with anyone-within your family or outside it. This section tells you how to		
5	share with people outside your family. The next section tells you how to share with people within your family.		
6	1. Sign in to your Office 365 Home account page. Be sure to use the same Microsoft account that you		
7	used to set up your Office 305 Home subscription.		
8	2. Click the Sharing tab, and then click Start sharing.		
9	Notes:		
10	If you don't see a Sharing tab, or you don't see Share Office in your Sharing tab, you may not be the owner of the Office 365 Home subscription. If you're using an Office 365 Home subscription that		
11	someone else shared with you, or if you have another type of Office 365 subscription, you can't share your subscription with other people.		
12	 You may also not have an Office 365 Home subscription. Check the product name above the tabs. Office 365 Personal and Office 365 University don't include subscription sharing. 		
13			
14	3. On the Share Office pop up, choose Invite via email or Invite via link.		
15	Source: <u>https://support.office.com/en-us/article/share-your-office-365-home-subscription-with-</u>		
16	<u>up-to-10u1-people-058909ce-5ae5-4a82-9017-59u799721c0a</u>		
17	82. Microsoft controls the licensing of the Accused Infringing Products on		
18	a device by device basis. As with the first installation of an Accused Infringing		
19	Product, the installation and activation on a second user device results in a second		
20	unique identifier being generated based on at a minimum a second unique device ID		
21	(UUID). If a user has no more allowed installs, the user must deactivate an existing		
22	device before another new device can be activated.		
23			
24	How can I use the software that is provided as part of the service? We do not sell our software or your copy of it – we only license it. Under our license we grant you the right to install and run that one copy of the software on one licensed device (the first		
25	licensed device) for use by one person at a time, but only if you comply with all the terms of this Supplement. The user whose Microsoft account is associated with the software license for the first licensed device is the "licensed subscriber." Provided that you comply with all		
26	the terms of this Supplement, you may install and run copies of the software on licensed devices (including on the first licensed device) as follows:		
27	Office 365 Home: On five PCs/Macs and five tablets, for use only by members of the same household as the licensed subscriber. 1		
28	Source: <u>https://www.microsoft.com/en-</u>		
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE		

Case 8:	18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 39 of 53 Page ID #:138				
1	us/Useterms/Retail/Office365/Personal/Useterms_Retail_Office365_Personal_English.htm				
1 2	Office 365 Personal For 1 PC or Mac and 1 Tablet				
2	Install Information				
5	PC, Mac, and Windows Tablet Installs Office for Windows Install Computer name Installed Language: English Need help installing?				
4	RICHARDS-XPS-13 Tuesday, May 5, 2015 Language and install options (Microsoft Windows 8.1 Pro) Deactivate Install Used By: You Voultable				
5					
7	If you're out of installs and need to install the desktop apps elsewhere, you first need to deactivate one of your current ones.				
/ Q	Source: https://www.windowscentral.com/how-manage-your-office-365-account-and-installs				
0	83. The Accused Infringing Products create licensing information unique				
10	to each device and not part of the digital content. If that portion (the "Entitlement")				
11	is missing, licensing errors occur.				
12					
13	No Office entitlement				
14	found on device				
15					
16	Symptoms				
17	You start up the Office on a new device and you get a				
18	message that "Office isn't entitled on this device" along with the option to try Office, enter a product key or purchase				
19	Office.				
20	Source: <u>https://support.microsoft.com/lo-la/help/2987490/no-office-entitlement-found-on-device</u>				
21	84. The Accused Infringing Products store the second instance of the				
22	digital asset. The storage of the second instance has both the storage of the actual				
23	program and at least one other portion consisting of the entitlement tied to the				
24	second unique identifier.				
25	85. The Accused Infringing Products track licensed assets by their unique				
26	identifier associated with an installed device such as a personal computer. The				
27	Accused Infringing Products display the number of licensing devices on a license				
28	management page.				
	38				
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE				

Case 8:	18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 40 of 53 Page ID #:139
1	
2	Office 365 Personal For IPC or Mac and I Tablet
3	Install Information
4	Computer name Installed Language: English Need help installing? BICH4EDDS, VDS-13 Tuesday: May 5 2015 Language: and install options
5	(Microsoft Windows 8.1 Pro) Deactivate Install Used By: You
6	
7	Source: https://www.windowscentral.com/how-manage-your-office-365-account-and-installs
8	86. The Accused Infringing Products allow a primary subscriber to send
9	an invitation to share the Accused Infringing Products with a second user, allowing
10	that second user to download and install a second instance of the digital asset on
11	another client computing device.
12	87. The Accused Infringing Products have an account that is debited for
13	each user that share the software.
14	
15	Managing installs
16	Regardless of your subscription tier you'll have an upper limit on how
17	many times you can install the Office desktop apps. Your account
18	management page will show you which devices you're currently using
19	diffinistali on <u>and now many you have available.</u>
20	Office 365 Personal
21	Install Information
22	PC, Mac, and Windows Tablet Installs Office for Windows Installed Office for Windows
23	Language: English Need help installing? RICHARDS-XPS-13 Tuesday, May 5, 2015 Language and install options (Microsoft Windows 8.1 Pro) Deactivate Install
24	Used By: You
25	Source: https://www.windowscentral.com/how-manage-your-office-365-account-and-installs
26	
27	
28	
	39
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE

Microsoft has infringed, and continues to infringe, at least claim 1 of
 the '636 patent in the United States, by making, using, offering for sale, selling
 and/or importing the Accused Infringing Products in violation of 35 U.S.C. §
 271(a).

5 Microsoft also has infringed, and continues to infringe, at least claim 1 89. 6 of the '636 patent by actively inducing others to use, offer for sale, and sell the 7 Accused Infringing Products. Microsoft's users, customers, agents or other third 8 parties who use those devices in accordance with Microsoft's instructions infringe 9 claim 1 of the '636 patent in violation of 35 U.S.C. § 271(a). Microsoft 10 intentionally instructs its customers to infringe through training videos, 11 demonstrations, brochures and user guides, such as those located at: 12 www.microsoft.com and https://support.microsoft.com. Microsoft is thereby liable 13 for infringement of the '636 patent under 35 U.S.C. § 271(b).

- 14 90. Microsoft also has infringed, and continues to infringe, at least claim 1 15 of the '636 patent by offering to commercially distribute, commercially distributing, and/or importing the Accused Infringing Products which devices are 16 17 used in practicing the processes, or using the systems, of the '636 patent, and 18 constitute a material part of the invention. Microsoft knows portions of the 19 Accused Infringing Products to be especially made or especially adapted for use in 20 infringement of the '636 patent, not a staple article, and not a commodity of 21 commerce suitable for substantial noninfringing use. Microsoft is thereby liable for 22 infringement of the '636 patent under 35 U.S.C. § 271(c).
- 91. Microsoft is on notice of its infringement of the '636 patent by virtue
 of a letter from Uniloc to Microsoft dated August 10, 2018. By the time of trial,
 Microsoft will have known and intended (since receiving such notice) that its
 continued actions would actively induce and contribute to the infringement of at
 least claim 1 of the '636 patent.
- 28

92. Upon information and belief, Microsoft may have infringed and
 continues to infringe the '636 patent through other software and devices utilizing
 the same or reasonably similar functionality, including other versions of the
 Accused Infringing Products.

5 93. Microsoft's acts of direct and indirect infringement have caused and 6 continue to cause damage to Uniloc and Uniloc is entitled to recover damages 7 sustained as a result of Microsoft's wrongful acts in an amount subject to proof at 8 trial.

9

15

<u>COUNT IV – INFRINGEMENT OF U.S. PATENT NO. 8,606,856</u>

10 94. The allegations of paragraphs 1-10 of this Complaint are incorporated11 by reference as though fully set forth herein.

12 95. The '856 patent, titled "Digital Media Asset Identification System and
13 Method," issued on December 10,2013. A copy of the '856 patent is attached as
14 Exhibit D.

96. Pursuant to 35 U.S.C. § 282, the '856 patent is presumed valid.

16 97. Invented by Content Technologies, LLC, the inventions of the '856 17 patent were not well-understood, routine or conventional at the time of the invention. At the time of invention of the '856 patent, systems for identifying and 18 19 transferring digital assets suffered from drawbacks. '856 patent at 1:15-2:6. For 20 example, many rights holders had begun to add digital watermarks to their assets. 21 Id. at 1:33-34. These watermarks were applied at the time the digital asset was 22 created and used for identification and enforcement purposes. Id. at 1:38-40. 23 Unfortunately, the use of watermarks alone is not sufficient to ensure that transfers 24 of digital assets are properly accounted for. Id. at 1:40-42.

25 98. The inventive solution of the claimed inventions of the '856 patent
26 provides a system that is reasonably robust and trustworthy so as to overcome
27 rights holders doubts and uncertainties concerning the use and distribution of their

1 products. Id. at 2:38-42. In accordance with one aspect of the present invention, a 2 digital asset is marked with a unique serial number using steganographic techniques 3 at the time the asset is introduced into a system. *Id.* at 2:65-3:1. The digital asset is 4 also marked with a new unique serial number each time it is transacted within the 5 system. Id. at 3:1-3. In accordance with another aspect of the present invention the serial number is recorded in databases where it is linked to specifics about the time 6 and parties involved in the transaction as well as additional information such as 7 8 details of ownership, royalties, and terms of use associated with the digital asset. 9 Id. at 3:4-8.

10 99. A person of ordinary skill in the art reading the '856 patent and its claims would understand that the patent's disclosure and claims are drawn to 11 12 solving a specific, technical problem arising in the distribution of digital assets. 13 Moreover, a person of ordinary skill in the art would understand that the claimed 14 subject matter of the '856 patent presents advancements in the field of tracking of 15 digital assets over a network and, more particularly, to marking of a digital asset to link a unique asset serial number to transaction, license, and rights management 16 17 information. And, as detailed by the specification, the prior systems for distributing 18 and tracking digital assets suffered drawbacks such that a new and novel system for 19 introducing, distributing and tracking digital assets in a manner that balances the 20 needs of rights holders and end users was required.

100. In light of the foregoing, a person of ordinary skill in the art would
understand that claim 1 of the '856 patent is directed to the distribution of digital
assets over a network by embedding in the first instance of a digital asset a cutomer
identification and an asset identification and embedding a unique identifier in each
additional instance of the digital asset to track instances of the digital asset being
transferred by modifying transaction records debiting a customer account when the
transfer occurs. *Id.* at 20:59-21:16. Moreover, a person of ordinary skill in the art

would understand that claim 1 of the '856 patent contains the inventive concept of
distributing digital assets over a network by embedding in the first instance of a
digital asset a cutomer identification and an asset identification and embedding a
unique identifier in each additional instance of the digital asset to track instances of
the digital asset being transferred by modifying transaction records debiting a
customer account when the transfer occurs. *Id.* at 20:59-21:16.

7 101. On information and belief, Microsoft makes, uses, offers for sale, and
8 sells in the United States and imports into the United States software products that
9 can be remotely downloaded, installed and activated, such as Microsoft Office 365,
10 and operates content delivery networks (CDNs) for distributing, installing and
11 activating its software products (collectively the "Accused Infringing Products").

12 102. Upon information and belief, the Accused Infringing Products infringe13 at least claim 1 in the exemplary manner described below.

14 103. The Accused Infringing Products are managed by a networked asset
15 distribution system that provides software via the Office Content Distribution
16 Network (CDN) of servers.

Office 365

17

18

19

20

21

22

23

26

27

28

Here's a list of all the offline installers for the Office 365 family: to download them, click to the corresponding Download URL. It's worth repeating that these are absolutely legitimate links from an official Microsoft site, specifically from the MS Office CDN (officecdn.microsoft.com).

Source: <u>https://www.ryadel.com/en/ms-office-2016-365-official-iso-img-images-for-download-offline-install-product-key-required/</u>

24 104. The Accused Infringing Products' CDN servers and computers execute
25 code that provides the download service for the Accused Infringing Products.

18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 45 of 53 Page ID #:144						
Content delivery networks						
Applies To: Office 365 Admin, Microsoft 365 Business						
Use this information to learn about Content Delivery Networks (CDNs) and how Office 365 leverages them.						
quickly download generic content, like icons, to your users' browser when they're using the service through						
aa6c-89b75dcd7f1f						
105 Microsoft embeds at least a customer identification associated with a						
customer and an asset identification associated with an instance of a digital asset in						
the instance of the digital asset. When Microsoft anables installation and activation						
of a digital asset (a.g., a version of the A seused Infringing Products), it uses a serial						
of a digital asset (e.g., a version of the Accused mininging Products), it uses a serial						
information						
information.						
×						
Enter your product key						
Your product key is 25 characters and is typically found in your product						
packaging. See product key examples						
Sign in with an active account instead						
Continue						
Source: https://support.office.com/en-us/article/activate-office-365-office-2016-or-office-2013-5bd38f38-						
<u>db92-448b-a982-ad170b1e187e</u>						
106. The user's Microsoft login and password as a unique Microsoft						
account is required for each download and installation of an Accused Infringing						
Device and are required to identify that copy of the software with that user.						
4.4						
44 FIRST AMENDED COMPLAINT - CASE NO - 8-18 CV 01270 DOC IDE						

1	Hi. Let's get your Office						
2	(1) Sign in with your Microsoft account						
3							
4	(R)						
5	\$\$\$\$\$\$\$\$\$\$						
6	You'll use your Microsoft Account for everything you do with Office. If you use a Microsoft service like Outlook.com, OneDrive, Xbox Live, or						
7	Skype, you already have an account. Sign in Create a new account						
8	Already entered a product key and looking for your software? Install from Office.com/MyAccount						
9	2 Enter your product key						
10	③ Get your Office						
11	Source: <u>https://support.office.com/en-us/article/activate-office-365-office-2016-or-office-2013-</u>						
12	<u>5bd38f38-db92-448b-a982-ad170b1e187e</u>						
13							
14	w						
15							
16	Microsoft® Word for Mac						
1 / 1 0	Version 16.9 (180116)						
18	Product ID: 02985-010-000001 License: Office 365 Subscription						
19 20	Device ID: © 2017 Microsoft, All rights reserved.						
20 21	Third Party Notices						
21 22	Source: Screenshot from MacBook Pro						
22	107 The instance of the Accused Infringing Product includes digital						
23 24	107. The instance of the Accused inifinging Product includes digital						
2 4 25	does not include the digital content. The Accused Infringing Products create						
25 26	licensing information unique to each device and user including the embedded						
20 27	information which is not part of the digital content. If that partice (a g the						
28	"Entitlement") is missing it causes licensing errors						
20	45						
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JD						

ise 8i	18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 47 of 53 Page ID #:146					
1						
2	No Office entitlement					
3	found on device					
4						
5						
6	Symptoms					
7	You start up the Office on a new device and you get a					
8	message that "Office isn't entitled on this device" along with the option to try Office, enter a product key or purchase					
9	Office.					
10	Source: https://support.microsoft.com/lo-la/help/2987490/no-office-entitlement-found-on-device					
11						
12	108. Microsoft controls the licensing of the Accused Infringing Products for					
13	a particular user by device. As with the first installation, the installation and					
14	activation on other devices results in other unique identifiers being generated based					
15	on at a minimum a second unique device ID of the second computing device. If a					
16	user has no more allowed installations, the user must deactivate an existing device					
l / 10	before they can activate a new device.					
18	How can I use the software that is provided as part of the service? We do not sell our software or your copy of it – we only					
19 20	license it. Under our license we grant you the right to install and run that one copy of the software on one licensed device (the first licensed device) for use by one person at a time, but only if you comply with all the terms of this Supplement. The user whose Microsoft					
20 21	account is associated with the software license for the first licensed device is the "licensed subscriber." Provided that you comply with all the terms of this Supplement, you may install and run copies of the software on licensed devices (including on the first licensed device) as					
$\frac{21}{22}$	follows: Office 365 Home: On five PCs/Macs and five tablets, for use only by members of the same bousehold as the licensed subscriber, 1					
22						
23 24	Source: <u>https://www.microsoft.com/en-</u> us/Useterms/Retail/Office365/Personal/Useterms_Retail_Office365_Personal_English.htm					
2 4 25						
25 26						
20 27						
28						
_0	46					
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE					

Case 8;18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 48 of 53 Page ID #:147

se 8:	18-cv-01279-DOC-JDE Document 14 Filed 08/10/18 Page 48 of 53 Page ID #:147						
1	Office 265 Dersonal						
2	Office 365 Personal For 1 PC or Mac and 1 Tablet						
3	Install Information PC Mac and Windows Tablet Installs						
4	Computer name Installed Language: English Need help installing?						
5	(Microsoft Windows 8.1 Pro) Deactivate Install Used By: You						
6	Used by. Tou						
7	If you're out of installs and need to install the desktop apps elsewhere, you first need						
8	to deactivate one of your current ones.						
9	Source: https://www.windowscentral.com/how-manage-your-office-365-account-and-installs						
10	109. The first user/subscriber can request to transfer an Accused Infringing						
11	Device to up to four other users by logging into the user's account and sending a						
12	share request to the Microsoft server. In response to this request, the server will						
13	send an invite to another user using another client computing device. Once the new						
14	user installs and activates the Accused Infringing Device, Microsoft will detect the						
15	transfer, record it and debit the first user/subscriber's account.						
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
	47 FIRST AMENDED COMPLAINT CASE NO 2012 CV 01270 DOC IDE						
	TIK5T AWIENDED COWIFLAINT = CASE NO. 0.10-CV-012/9-DOC-JDE						

1	How to share your Office 365 Home subscription benefits						
2	with others						
3 4	You can share your subscription with anyone—within your family or outside it. This section tells you how to share with people outside your family. The next section tells you how to share with people within your family.						
5 6	 Sign in to your Office 365 Home account page. Be sure to use the same Microsoft account that you used to set up your Office 365 Home subscription. 						
7	2. Click the Sharing tab, and then click Start sharing.						
8 9	Notes:						
10	If you don't see a Sharing tab, or you don't see Share Office in your Sharing tab, you may not be the owner of the Office 365 Home subscription. If you're using an Office 365 Home subscription that someone else shared with you, or if you have another type of Office 365 subscription, you can't share						
11	your subscription with other people.						
12	Office 365 Personal and Office 365 University don't include subscription sharing.						
13 14	3. On the Share Office pop up, choose Invite via email or Invite via link.						
14							
16	Source: https://support.office.com/en-us/article/share-your-office-365-home-subscription-with- up-to-four-people-b389b9ce-3ae3-4a82-9017-39d79972fcba						
17	110. Microsoft modifies a transaction record in response to a transfer. The						
18	transaction record includes a list of all devices that are currently using an						
19	installation of an Accused Infringing Device.						
20	111. The account for the Accused Infringing Device first user/subscriber is						
21	debited for each user that an Accused Infringing Device is shared.						
22							
23							
24							
25							
26							
27							
28	48						
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-JDE						

Managing installs

1

2

3

Λ

Regardless of your subscription tier you'll have an upper limit on how many times you can install the Office desktop apps. Your account management page will show you which devices you're currently using an install on and how many you have available.

т	available.						
5	5 Office 365 Personal						
6	For 1 PC or Mac and 1 Tablet						
7	7 Install Information						
8	8 PC, Mac, and Windows Tablet Installs Office for Windows Computer name Installed						
9	9 RICHARDS-XPS-13 Tuesday, May 5, 2015 Language and install options (Microsoft Windows 8.1 Pro) Deactivate Install						
10	0 Used By: You						
11	1						
12	2 Source: <u>https://www.windowscentral.com/how-manage-your-office-365-account-and-i</u>	<u>nstalls</u>					
13	3 Managing installs						
14	4						
15	Regardless of your subscription tier you'll have an upper limit on how	/					
16	many times you can install the Office desktop apps. <u>Your account</u>						
10	management page will show you which devices you're currently using						
17							
18 10	8 Office 365 Personal For 1 PC or Mac and 1 Tablet						
19	Install Information						
20	PC, Mac, and Windows Tablet Installs Office for Windows Install Installed Under State Office for Windows Install						
21	RICHARDS-XPS-13 Tuesday, May 5, 2015 Language and install options (Microsoft Windows 8.1 Pro) Deactivate Install						
22	Used By: You						
23	Source: https://www.windowscentral.com/how_manage_your_office_265_account_and_i	netalla					
24	4	<u>11510115</u>					
25	112. Microsoft has infringed, and continues to infringe, at least clai	m 1 of					
26	the '856 patent in the United States, by making, using, offering for sale, sel	ling					
	and/or importing the Accused Infringing Products in violation of 35 U.S.C. §						
27	and/or importing the recused mininging roducts in violation of 55 0.5.C.	§					

1 271(a).

2 113. Microsoft also has infringed, and continues to infringe, at least claim 1 3 of the '856 patent by actively inducing others to use, offer for sale, and sell the 4 Accused Infringing Products. Microsoft's users, customers, agents or other third 5 parties who use those devices in accordance with Microsoft's instructions infringe claim 1 of the '856 patent in violation of 35 U.S.C. § 271(a). Microsoft 6 7 intentionally instructs its customers to infringe through training videos, 8 demonstrations, brochures and user guides, such as those located at: 9 www.microsoft.com and https://support.microsoft.com. Microsoft is thereby liable 10 for infringement of the '856 patent under 35 U.S.C. § 271(b).

11 Microsoft also has infringed, and continues to infringe, at least claim 1 114. 12 of the '856 patent by offering to commercially distribute, commercially 13 distributing, and/or importing the Accused Infringing Products which devices are 14 used in practicing the processes, or using the systems, of the '856 patent, and 15 constitute a material part of the invention. Microsoft knows portions of the Accused Infringing Products to be especially made or especially adapted for use in 16 17 infringement of the '856 patent, not a staple article, and not a commodity of 18 commerce suitable for substantial noninfringing use. Microsoft is thereby liable for 19 infringement of the '856 Patent under 35 U.S.C. § 271(c).

115. Microsoft is on notice of its infringement of the '856 patent by virtue
of a letter from Uniloc to Microsoft dated August 10, 2018. By the time of trial,
Microsoft will have known and intended (since receiving such notice) that its
continued actions would actively induce and contribute to the infringement of at
least claim 1 of the '856 patent.

116. Upon information and belief, Microsoft may have infringed and
continues to infringe the '856 patent through other software and devices utilizing
the same or reasonably similar functionality, including other versions of the

1 Accused Infringing Products.

117. Microsoft's acts of direct and indirect infringement have caused and
continue to cause damage to Uniloc and Uniloc is entitled to recover damages
sustained as a result of Microsoft's wrongful acts in an amount subject to proof at
trial.

PRAYER FOR RELIEF

7 WHEREFORE, plaintiffs Uniloc 2017 LLC, Uniloc Licensing USA LLC and
8 Uniloc USA, Inc., respectfully pray that the Court enter judgment in their favor and
9 against Microsoft as follows:

a. A judgment that Microsoft has infringed one or more claims of
the '676 Patent literally and/or under the doctrine of equivalents directly and/or
indirectly by inducing infringement and/or by contributory infringement;

b. A judgment that Microsoft has infringed one or more claims of
the '917 Patent literally and/or under the doctrine of equivalents directly and/or
indirectly by inducing infringement and/or by contributory infringement;

16 c. A judgment that Microsoft has infringed one or more claims of
17 the '636 Patent literally and/or under the doctrine of equivalents directly and/or
18 indirectly by inducing infringement and/or by contributory infringement;

d. A judgment that Microsoft has infringed one or more claims of
the '856 Patent literally and/or under the doctrine of equivalents directly and/or
indirectly by inducing infringement and/or by contributory infringement;

e. That for each Asserted Patent this Court judges infringed by
Microsoft this Court award Uniloc its damages pursuant to 35 U.S.C. § 284 and any
royalties determined to be appropriate;

f. That this be determined to be an exceptional case under 35
U.S.C. § 285 and that Uniloc be awarded enhanced damages up to treble damages
for willful infringement as provided by 35 U.S.C. § 284;

28

6

	1				
1	g.	That this Court award Uniloc prejudgment and post-judgment			
2	interest on its damages;				
3	h.	That Uniloc be granted its reasonable attorneys' fees in this			
4	action;				
5	i.	That this Court award Uniloc its costs; and			
6	j.	That this Court award Uniloc such other and further relief as the			
7	Court deems proper.				
8		DEMA	ND FOR JURY TRIAL		
9	Uniloc here	eby demands trial b	y jury on all issues so triable pursuant to Fed.		
10	R. Civ. P. 38.				
11					
12	Dated: August 1	0, 2018	FEINBERG DAY ALBERTI LIM & BELLOLI LLP		
13					
14			By: /s/ M. Elizabeth Day		
15			MI. Elizabeth Day		
16			Attorneys for Plaintiffs		
17			Unifoc 2017 LLC, Unifoc Licensing USA LLC and Unifoc USA. Inc.		
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
	 		52		
	FIRST AMENDED COMPLAINT – CASE NO. 8:18-CV-01279-DOC-J				