

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM512081

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Wells Fargo Bank, National Association		02/27/2019	National Banking Association: UNITED STATES
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Dasan Zhone Solutions, Inc.		
<b>Street Address:</b>	7195 Oakport street		
<b>City:</b>	oakland		
<b>State/Country:</b>	CALIFORNIA		
<b>Postal Code:</b>	94621		
<b>Entity Type:</b>	Corporation: DELAWARE		
<b>PROPERTY NUMBERS Total: 18</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	2608096	SLMS	
<b>Registration Number:</b>	2586521	ZMS	
<b>Registration Number:</b>	2725112	MALC	
<b>Registration Number:</b>	2725113	ZHONE	
<b>Registration Number:</b>	3390835	ZNID	
<b>Registration Number:</b>	3725214	MXK	
<b>Registration Number:</b>	4455296	BANDWIDTH CHANGES EVERYTHING	
<b>Registration Number:</b>	4313579	ZHONE FIBERCELL	
<b>Registration Number:</b>	4252361	IP ZHONE	
<b>Registration Number:</b>	4745309	FIBERLAN	
<b>Serial Number:</b>	87440078	DZS EVERY CONNECTION MATTERS	
<b>Serial Number:</b>	87440114	DZS	
<b>Serial Number:</b>	87911757	DZS FIBERCELL	
<b>Serial Number:</b>	87923526	VNOS	
<b>Registration Number:</b>	2248498	PARADYNE	
<b>Registration Number:</b>	2885561	REACHDSL	
<b>Registration Number:</b>	2856212	BITSTORM	
<b>Registration Number:</b>	3331453	ETHERXTEND	

OP \$465.00 2608096

**CORRESPONDENCE DATA****Fax Number:** 2158325619*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.***Phone:** 2155695619**Email:** pecsenye@blankrome.com**Correspondent Name:** Timothy D. Pecsénye**Address Line 1:** One Logan Square**Address Line 2:** 8th Floor**Address Line 4:** Philadelphia, PENNSYLVANIA 19103

<b>ATTORNEY DOCKET NUMBER:</b>	074658-18113
<b>NAME OF SUBMITTER:</b>	Timothy D. Pecsénye
<b>SIGNATURE:</b>	/Timothy D. Pecsénye/
<b>DATE SIGNED:</b>	02/28/2019

**Total Attachments: 6**

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**TERMINATION AND RELEASE OF AMENDED AND RESTATED  
PATENT AND TRADEMARK SECURITY AGREEMENT**

**THIS TERMINATION AND RELEASE OF AMENDED AND RESTATED PATENT AND TRADEMARK SECURITY AGREEMENT** (this "Termination"), is dated as of February 27, 2019, and made by WELLS FARGO, NATIONAL ASSOCIATION, having an office at 2450 Colorado Avenue, Suite 3000W, Santa Monica, California 90404 ("Wells Fargo") to DASAN ZHONE SOLUTIONS, INC., a Delaware corporation (fka Zhone Technologies, Inc., the "Company"), with its chief executive office at 7195 Oakport Street, Oakland, California 95621.

WHEREAS, Company and Wells Fargo entered into that certain Amended and Restated Patent and Trademark Security Agreement, dated July 12, 2018 (the "A&R Security Agreement"), in which a security interest was granted by Company in favor of Wells Fargo in certain Trademarks and Patents (in each case, as defined in the A&R Security Agreement);

WHEREAS, the A&R Security Agreement was recorded in (i) the Trademark Division of the United States Patent and Trademark Office on July 30, 2018, at Reel 6395, Frame 0001, and (ii) the Patent Division of the United States Patent and Trademark Office on August 10, 2018, at Reel 046619, Frame 0189; and

WHEREAS, Wells Fargo now desires to terminate and release the A&R Security Agreement.

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, and upon the terms set forth in this Termination, Wells Fargo hereby states as follows:

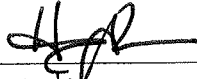
1. Definitions. The terms "Trademarks" and "Patents", as used herein, shall have the respective meanings set forth in the A&R Security Agreement and shall mean and include all of the Company's right, title and interest of every kind and nature as of the date hereof, including in the trademarks and patents listed on Schedule A and Schedule B attached hereto.

2. Release of Security Interest. Wells Fargo hereby terminates the A&R Security Agreement, and terminates, releases and discharges its security interest in the Trademarks and the Patents and reassigns to Company all right, title and interest it may have in and to the Trademarks and the Patents without recourse and without any representation or warranty.

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IN WITNESS WHEREOF, the Wells Fargo has caused this Termination to be executed by its duly authorized officer as of the date first written above.

WELLS FARGO, NATIONAL ASSOCIATION

By:   
Name: Harry Joe  
Title: Authorized Signatory

Signature Page to Termination and Release of Amended and Restated Patent and Trademark Security Agreement

*WFB/Dasan Zhone Solutions, Inc. (fka Zhone Technologies, Inc.)*  
DB2/ 35596217

**TRADEMARK**  
**REEL: 006577 FRAME: 0272**

SCHEDULE A

UNITED STATES PATENTS AND APPLICATIONS

<u>United States Patent Title</u>	<u>Patent Number</u>	<u>Application Number</u>
<u>SYSTEM FOR REAL TIME VOICE QUALITY MEASUREMENT IN VOICE OVER PACKET NETWORK</u>	<u>7197010</u>	<u>09/885,373</u>

SCHEDULE B

UNITED STATES ISSUED TRADEMARKS, SERVICE MARKS  
AND COLLECTIVE MEMBERSHIP MARKS

<u>United States Trademark</u>	<u>Application Number</u>	<u>Registration Number</u>	<u>Registration Date</u>	<u>Expiration Date</u>
<u>SLMS</u>	<u>76/110,937</u>	<u>2,608,096</u>	<u>8-13-2002</u>	<u>8-13-2022</u>
<u>ZMS</u>	<u>76/174,513</u>	<u>2,586,521</u>	<u>6-25-2002</u>	<u>6-25-2022</u>
<u>MALC</u>	<u>76/175,453</u>	<u>2,725,112</u>	<u>6-10-2003</u>	<u>6-10-2023</u>
<u>ZHONE</u>	<u>76/175,462</u>	<u>2,725,113</u>	<u>6-10-2003</u>	<u>6-10-2023</u>
<u>Znid</u>	<u>77/067,082</u>	<u>3,390,835</u>	<u>3-04-2008</u>	<u>3-04-2028</u>
<u>MXK</u>	<u>77/739,166</u>	<u>3,725,214</u>	<u>12-15-2009</u>	<u>12-15-2029</u>
<u>BANDWIDTH CHNAGES EVERYTHING</u>	<u>85/030,477</u>	<u>4,455,296</u>	<u>12-24-2013</u>	<u>12-24-2023</u>
<u>ZHONE FIBERCELL</u>	<u>85/245,648</u>	<u>4,313,579</u>	<u>4-02-2013</u>	<u>4-02-2023</u>
<u>IP ZHONE</u>	<u>85/295,116</u>	<u>4,252,361</u>	<u>12-04-2012</u>	<u>12-04-2022</u>
<u>FIBERLAN</u>	<u>86/126,754</u>	<u>4,745,309</u>	<u>5-26-2015</u>	<u>5-26-2025</u>
<u>DZS EVERY CONNECTION MATTERS (stylized and/or with design)</u>	<u>87/440,078</u>			
<u>DZS (stylized and/or with design)</u>	<u>87/440,114</u>			
<u>DZS FIBERCELL</u>	<u>87/911,757</u>			
<u>VNOS</u>	<u>87/923,526</u>			
<u>PARADYNE (stylized and/or with design)</u>	<u>75/184,564</u>	<u>2,248,498</u>	<u>6-01-1999</u>	<u>6-01-2019</u>
<u>REACHDSL</u>	<u>76/197,073</u>	<u>2,885,561</u>	<u>9-21-2004</u>	<u>9-21-2024</u>
<u>BITSTORM</u>	<u>76/060,907</u>	<u>2,856,212</u>	<u>6-22-2004</u>	<u>6-22-2024</u>
<u>ETHERXTEND</u>	<u>78/706,963</u>	<u>3,331,453</u>	<u>11-06-2007</u>	<u>11-06-2027</u>

<u>Australia Trademark</u>	<u>Application Number</u>	<u>Registration Number</u>	<u>Registration Date</u>	<u>Expiration Date</u>
<u>ZHONE</u>	<u>833160</u>	<u>833160</u>	<u>3-30-2001</u>	<u>4-28-2020</u>
<u>Z and design</u>	<u>833161</u>	<u>833161</u>	<u>3-30-2001</u>	<u>4-28-2020</u>

<u>Canada Trademark</u>	<u>Application Number</u>	<u>Registration Number</u>	<u>Registration Date</u>	<u>Expiration Date</u>
<u>ZHONE</u>	<u>1056021</u>	<u>TMA574176</u>	<u>1-22-2003</u>	<u>1-22-2033</u>
<u>Z and design</u>	<u>1056022</u>	<u>TMA574177</u>	<u>1-22-2003</u>	<u>1-22-2033</u>

<u>Chile Trademark</u>	<u>Application Number</u>	<u>Registration Number</u>	<u>Registration Date</u>	<u>Expiration Date</u>
<u>ZHONE</u>	<u>493.105</u>	<u>587.379</u>	<u>1-10-2001</u>	<u>1-10-2021</u>
<u>Z and design</u>	<u>493.107</u>	<u>587.381</u>	<u>1-10-2001</u>	<u>1-10-2021</u>

<u>China (People's Republic)</u> <u>Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	2000076059	1606363	7-21-2001	7-20-2021
Z and design	2000076060	1606365	7-21-2001	7-20-2021

<u>European Union (Community)</u> <u>Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	1683705	1683705	8-03-2001	5-31-2020
MXK	008338394	008338394	12-23-2009	6-03-2019

<u>India Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	928854	928854	5-31-2000	5-31-2020
Z and design	928855	928855	4-21-2005	5-31-2020

<u>Indonesia Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	477920	477920	5-25-2001	5-31-2020
Z and design	477919	477919	5-25-2001	5-31-2020

<u>Japan Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	2000- 044391	4466214	4-13-2001	4-13-2021
Z and design	2000- 044420	4466217	4-20-2001	4-20-2021

<u>Korea Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	2000-25959	511688	2-01-2002	2-01-2022
Z and design	2000-25960	511689	2-01-2002	2-01-2022

<u>Mexico Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	750581	750581	6-14-2002	6-14-2022
Z and design	454566	454566	10-25-2000	10-25-2020

<u>Russia Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
ZHONE	2000712807	210414	4-04-2002	5-30-2020
Z and design	2000712724	210339	4-02-2002	5-30-2020

<u>Singapore Trademark</u>	<u>Application</u> <u>Number</u>	<u>Registration</u> <u>Number</u>	<u>Registration</u> <u>Date</u>	<u>Expiration</u> <u>Date</u>
Z ZHONE	T00/07159Z	T00/07159Z	4-29-2000	4-29-2020

<u>Z and design</u>	<u>T00/07160C</u>	<u>T00/07160C</u>	<u>4-29-2000</u>	<u>4-29-2020</u>
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<u>South Africa Trademark</u>	<u>Application Number</u>	<u>Registration Number</u>	<u>Registration Date</u>	<u>Expiration Date</u>
<u>Z ZHONE</u>	<u>2000/10766</u>	<u>2000/10766</u>	<u>12-19-2003</u>	<u>5-30-2020</u>
<u>Z and design</u>	<u>2000/10767</u>	<u>2000/10767</u>	<u>12-19-2003</u>	<u>5-30-2020</u>

<u>Switzerland Trademark</u>	<u>Application Number</u>	<u>Registration Number</u>	<u>Registration Date</u>	<u>Expiration Date</u>
<u>Z ZHONE</u>	<u>06495/2000</u>	<u>478.136</u>	<u>11-07-2000</u>	<u>5-30-2020</u>

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