

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM512077

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST

## CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Wells Fargo Bank, National Association		02/27/2019	National Banking Association: UNITED STATES

## RECEIVING PARTY DATA

<b>Name:</b>	Zhone Technologies, 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

## PROPERTY NUMBERS Total: 19

Property Type	Number	Word Mark
Serial Number:	85030477	BANDWIDTH CHANGES EVERYTHING
Registration Number:	3228389	FIBERJACK
Serial Number:	85295116	IP ZHONE
Registration Number:	2725112	MALC
Registration Number:	3725214	MXK
Registration Number:	1738931	PREMISYS
Registration Number:	3133679	RAPTOR
Registration Number:	2608096	SLMS
Registration Number:	3895661	SMART OMC
Registration Number:	2725113	ZHONE
Serial Number:	85344417	ZHONE EZ CLOUD
Serial Number:	85419934	ZHONE EZ FIBERSERVICE
Serial Number:	85342013	ZHONE EZ SERVICE
Serial Number:	85090183	ZHONE EZ TOUCH PROVISIONING
Serial Number:	85245648	ZHONE FIBERCELL
Registration Number:	4309562	ZHONE FIBERHOME
Serial Number:	85505377	ZHONE FIBERLAN
Registration Number:	2586521	ZMS
Registration Number:	3390835	ZNID

TRADEMARK

**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  
PATENT AND TRADEMARK SECURITY AGREEMENT**

**THIS TERMINATION AND RELEASE OF 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 ZHONE TECHNOLOGIES, INC., a Delaware corporation (now known as Dasan Zhone Solutions, Inc., the "Company"), with its chief executive office at 7195 Oakport Street, Oakland, California 95621.

WHEREAS, Company and Wells Fargo entered into that certain Patent and Trademark Security Agreement, dated March 13, 2012 (the "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 Security Agreement);

WHEREAS, the Security Agreement was recorded in (i) the Trademark Division of the United States Patent and Trademark Office on April 26, 2012, at Reel 4765, Frame 0979, and (ii) the Patent Division of the United States Patent and Trademark Office on May 2, 2012, at Reel 028144, Frame 0583; and

WHEREAS, Wells Fargo now desires to terminate and release the 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 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 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 Patent and Trademark Security Agreement

*WFB/Zhone Technologies, Inc. (now known as Dasan Zhone Solutions, Inc.)*  
DB2/ 35596348

**TRADEMARK**  
**REEL: 006577 FRAME: 0241**

SCHEDULE A

UNITED STATES ISSUED PATENTS

Zhone Technologies, Inc. Patents

Patent Number	Utility Number	Title
5165091	07/672,707	Firmware download from a remote terminal to an optical network terminal in a digital loop carrier system
7197010	09/885,373	System for Real Time Voice Quality Measurement in Voice Over Packet Network

**SCHEDULE B**

**UNITED STATES ISSUED TRADEMARKS, SERVICE MARKS  
AND COLLECTIVE MEMBERSHIP MARKS**

**Trademarks - United States**

<b>United States Trademark</b>	<b>Application Number</b>	<b>Registration Number</b>	<b>Registration Date</b>	<b>Expiration Date</b>
BANDWIDTH CHANGES EVERYTHING	85/030,477			
FIBERJACK	78/279,513	3228389	10-Apr-2007	10-Apr-2017
IP ZONE	85/295,116			
MALC	76/175,453	2725112	10-Jun-2003	10-Jun-2013
MXK	77/739,166	3725214	15-Dec-2009	15-Dec-2019
PREMISYS	74/093,219	1738931	08-Dec-1992	08-Dec-2012
RAPTOR	78/216,279	3133679	22-Aug-2006	22-Aug-2016
SLMS	76/110,937	2608096	13-Aug-2002	13-Aug-2012
SMART OMCI	77/739,120	3895661	21-Dec-2010	21-Dec-2020
ZHONE	76/175,462	2725113	10-Jun-2003	10-Jun-2013
ZHONE EZ CLOUD	85/344,417			
ZHONE EZ FIBERSERVICE	85/419,934			
ZHONE EZ SERVICE	85/342,013			
ZHONE EZ TOUCH PROVISIONING & DESIGN	85/090,183			
ZHONE FIBERCELL	85/245,648			
ZHONE FIBERHOME	85/225,455	4309562		
ZHONE FIBERLAN	85/505,377			
ZMS	76/174,513	2586521	25-Jun-2002	25-Jun-2012
Znid	77/067,082	3390835	04-Mar-2008	04-Mar-2018

**Trademarks - Canada**

<b>Canada Trademark</b>	<b>Registration Number</b>	<b>Registration Date</b>	<b>Expiration Date</b>
Z and design	TMA574,177	05-Jun-2007	04-Jun-2017
ZHONE	TMA574,176	22-Jan-2003	22-Jan-2018

**Trademarks – Other Jurisdictions**

<b>Trademark</b>	<b>Jurisdiction</b>	<b>Registration Number</b>	<b>Registration Date</b>	<b>Expiration Date</b>
Z and design	Australia	833161	30-Mar-2001	28-Apr-2020

ZHONE	Australia	833160	30-Mar-2001	28-Apr-2020
Z ZHONE	Brazil	822905132	05-Jun-2007	04-Jun-2017
Z and design	Chile	587.381	10-Jan-2001	10-Jan-2021
ZHONE	Chile	587.379	10-Jan-2001	10-Jan-2021
Z and design	China (People's Republic)	1606365	21-Jul-2001	20-Jul-2021
Z ZHONE	China (People's Republic)	1606363	21-Jul-2001	20-Jul-2021
MXK	European Community	8338394	23-Dec-2009	03-Jun-2019
Z ZHONE	European Community	1683705	03-Aug-2001	31-May-2020
Z and design	Hong Kong	2000B15914	05-Dec-2000	03-May-2017
Z ZHONE	Hong Kong	200015555	24-Nov-2000	03-May-2017
Z and design	India	928855	21-Apr-2005	31-May-2020
Z ZHONE	India	928854	31-May-2000	31-May-2020
Z and design	Indonesia	477919	25-May-2001	31-May-2020
Z ZHONE	Indonesia	477920	25-May-2001	31-May-2020
Z and design	Israel	138375	03-Jul-2001	29-May-2017
Z ZHONE	Israel	138374	05-Sep-2001	29-May-2017
Z and design	Japan	4468117	20-Apr-2001	20-Apr-2021
Z ZHONE	Japan	4466214	13-Apr-2001	13-Apr-2021
Z and design	Korea, Republic of	511689	01-Feb-2002	01-Feb-2022
Z ZHONE	Korea, Republic of	511688	01-Feb-2002	01-Feb-2022
Z and design	Mexico	454566	25-Oct-2000	25-Oct-2020
Z ZHONE	Mexico	750581	14-Jun-2002	25-Oct-2020
Z and design	New Zealand	615692	30-Nov-2000	29-May-2017
Z ZHONE	New Zealand	615691	08-Mar-2001	29-May-2017
Z and design	Russian Federation	210339	02-Apr-2002	30-May-2020
ZHONE	Russian Federation	210414	04-Apr-2002	30-May-2020
Z and design	Singapore	T00/07160C	29-Apr-2000	29-Apr-2020
Z ZHONE	Singapore	T00/07159Z	29-Apr-2000	29-Apr-2020
Z and design	South Africa	2000/10767	19-Dec-2003	30-May-2020
Z ZHONE	South Africa	2000/10766	19-Dec-2003	30-May-2020

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Z ZHONE	Switzerland	478.136	07-Nov-2000	30-May-2020
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