

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

ETAS ID: TM480405

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Black Box Corporation		06/29/2018	Corporation: DELAWARE
Black Box Corporation of Pennsylvania		06/29/2018	Corporation: DELAWARE
Norstan Communications, Inc.		06/29/2018	Corporation: MINNESOTA
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	PNC Bank, National Association		
<b>Street Address:</b>	300 Fifth Avenue		
<b>City:</b>	Pittsburgh		
<b>State/Country:</b>	PENNSYLVANIA		
<b>Postal Code:</b>	15222		
<b>Entity Type:</b>	National Banking Association: UNITED STATES		
<b>PROPERTY NUMBERS Total: 6</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	5378366	ICOMPEL	
<b>Registration Number:</b>	5384447	CONTROLBRIDGE	
<b>Registration Number:</b>	5369412	COALESCE	
<b>Registration Number:</b>	5340647	BMIGRATE	
<b>Serial Number:</b>	87845421	ACUITY	
<b>Serial Number:</b>	87845440	ACUITY MDC	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	2158325619		
<i>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.</i>			
<b>Phone:</b>	215-569-5619		
<b>Email:</b>	pecsenye@blankrome.com		
<b>Correspondent Name:</b>	Timothy D. Pecsénye		
<b>Address Line 1:</b>	One Logan Square		
<b>Address Line 2:</b>	8th Floor		
<b>Address Line 4:</b>	Philadelphia, PENNSYLVANIA 19103		
<b>ATTORNEY DOCKET NUMBER:</b>	131832-01464		

OP \$165.00 5378366

<b>NAME OF SUBMITTER:</b>	Timothy D. Pecsénye
<b>SIGNATURE:</b>	/Timothy D. Pecsénye/
<b>DATE SIGNED:</b>	07/03/2018
<b>Total Attachments: 8</b> source=Amend 2 - IP Security Agreement - executed#page1.tif source=Amend 2 - IP Security Agreement - executed#page2.tif source=Amend 2 - IP Security Agreement - executed#page3.tif source=Amend 2 - IP Security Agreement - executed#page4.tif source=Amend 2 - IP Security Agreement - executed#page5.tif source=Amend 2 - IP Security Agreement - executed#page6.tif source=Amend 2 - IP Security Agreement - executed#page7.tif source=Amend 2 - IP Security Agreement - executed#page8.tif	

**SUPPLEMENT TO PATENT, TRADEMARK AND COPYRIGHT  
SECURITY AGREEMENT**

This Supplement to Patent, Trademark and Copyright Security Agreement, executed the 29<sup>th</sup> day of June, 2018, is made by the Grantors (as defined in the Security Agreement referenced below) listed on the signature page hereto, for the benefit of PNC Bank, National Association, as administrative agent and collateral agent for the Lenders (as defined in the Credit Agreement (as hereinafter defined)) (in such capacity, the “Administrative Agent”) (this “Supplement”).

**BACKGROUND**

This Supplement is being delivered in connection with (i) that certain Credit Agreement, dated May 9, 2016 (as amended, modified, supplemented or restated from time to time, the “Credit Agreement”), by and among Black Box Corporation, a Delaware corporation, as borrower (the “Borrower”), the Guarantors (as defined therein) party thereto, the Lenders party thereto and the Administrative Agent, (ii) that certain Security Agreement dated May 9, 2016 (as amended, modified, supplemented or restated from time to time, the “Security Agreement”), by the Borrower and each Guarantor party thereto as a Grantor in favor of the Administrative Agent for its benefit and the benefit of the Lenders, and (iii) that certain Patent, Trademark and Copyright Security Agreement dated May 9, 2016 (as amended, modified, supplemented or restated from time to time, the “IP Security Agreement”), by the Grantors party thereto in favor of the Administrative Agent for its benefit and the benefit of the Lenders. Capitalized terms used herein and not otherwise defined herein shall have the meanings assigned to such terms in the IP Security Agreement.

A. Pursuant to the Security Agreement and the IP Security Agreement, the Grantors agreed, among other things, to grant to the Administrative Agent (for itself and for the benefit of the Lenders) a security interest in certain of their personal property assets, including, without limitation, the Grantors’ existing and after-acquired patents, patent applications, service marks, service mark applications, service names, trademarks, trademark applications, trade names, goodwill and copyrights, copyright applications and copyright registrations pursuant to the terms and conditions of the IP Security Agreement.

B. The undersigned Grantors own or have acquired additional Patents, as set forth on Schedule (A)(1), Trademarks and Trademark Applications set forth on Schedule B(1), and Copyrights set forth on Schedule (C)(1), each as attached hereto and made part hereof (collectively, the “Additional IP”).

C. The undersigned Grantors and the Administrative Agent desire to execute this Supplement for the purpose of granting, conveying, ratifying and confirming the Administrative Agent’s Lien in all of such Grantor’s right, title and interest in and to the Additional IP, as set forth more fully in the IP Security Agreement and for recording in the United States Patent and Trademark Office and the United States Copyright Office, as applicable.

NOW THEREFORE, with the foregoing Background hereinafter deemed incorporated by reference and made a part hereof, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, each undersigned Grantor agrees as follows:

1. To secure the full and timely payment of the Obligations in accordance with the terms of the Loan Documents, each undersigned Grantor hereby grants to the Administrative Agent (for itself and the benefit of the Lenders) a Lien in all of such Grantor's right, title and interest in and to the Additional IP.

2. Each undersigned Grantor acknowledges and confirms that the rights and remedies of the Administrative Agent with respect to the Lien on the Additional IP granted hereby are more fully set forth in the Credit Agreement, the Security Agreement and the IP Security Agreement, the terms and provisions of which are incorporated herein by reference. All references to the IP Security Agreement contained in the Credit Agreement, the Security Agreement or the other Loan Documents shall be deemed, for all purposes, to also refer to and include this Supplement.

3. Schedules A, B and C to the IP Security Agreement are hereby supplemented by the information contained in Schedules A(1), B(1) and (C)(1) attached hereto. All references to Schedules A, B and C contained in the Credit Agreement, the Security Agreement, the IP Security Agreement or the other Loan Documents shall be deemed, for all purposes, to also refer to and include Schedules A(1), B(1) and (C)(1).

4. Except as expressly amended by this Supplement, all of the terms, conditions and provisions of the Credit Agreement, Security Agreement and the IP Security Agreement are hereby ratified and continue unchanged and remain in full force and effect.

5. This Supplement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature by facsimile or PDF shall also bind the parties hereto.


6. This Supplement shall be governed by and construed in accordance with the Laws of the Commonwealth of Pennsylvania applicable to contracts made and to be performed in such Commonwealth.

[INTENTIONALLY LEFT BLANK; SIGNATURE PAGES TO FOLLOW]

IN WITNESS WHEREOF, and intending to be legally bound, the Grantors have executed this Supplement as a document under seal on the day and year first above written.

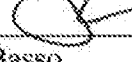
**GRANTORS:**

**Black Box Corporation**, a Delaware corporation

By:  (SEAL)  
Ronald Basso  
Executive Vice President of Business  
Development, General Counsel and Secretary

**Black Box Corporation of Pennsylvania**, a  
Delaware corporation

**Norstan Communications, Inc.**, a Minnesota  
corporation

By:  (SEAL)  
Ronald Basso  
Vice President and Secretary

**SCHEDULE A(1)**

**PATENTS**

<i>Owner</i>	<i>Country</i>	<i>Title</i>	<i>Application Number</i>
<i>Black Box Corporation</i>	United States	Micro Data Center	15/960,466

**SCHEDULE B (2)**

**TRADEMARKS**

<i>Owner</i>	<i>Country</i>	<i>Mark</i>	<i>Registration No.</i>	<i>Registration Date</i>
<i>Black Box Corporation Of Pennsylvania d/b/a Black Box Network Services</i>	United States	iCOMPEL	5,378,366	01/16/2018
<i>Black Box Corporation Of Pennsylvania d/b/a Black Box Network Services</i>	United States	CONTROLBRIDGE	5,384,447	01/23/2018
<i>Black Box Corporation Of Pennsylvania d/b/a Black Box Network Services</i>	United States	COALESCE	5,369,412	01/02/2018
<i>Norstan Communications, Inc.</i>	United States	bMIGRATE	5,340,647	11/21/17

**TRADEMARK APPLICATIONS**

<i>Owner</i>	<i>Country</i>	<i>Mark</i>	<i>Application No.</i>	<i>Filing Date</i>
<i>Black Box Corporation Of Pennsylvania d/b/a</i>	United States	ACUTY	87/845,421	03/22/18

<i>Black Box Network Services</i>				
<i>Black Box Corporation Of Pennsylvania d/b/a Black Box Network Services</i>	United States	ACUTY MDC	87/845,440	03/22/18



**SCHEDULE C (2)**  
**COPYRIGHTS**

<i>Name</i>	<i>Full Title</i>	<i>Copyright Number</i>	<i>Date</i>
<i>Black Box Corporation</i>	CAP program: LL0005G1.ASM	TX00002722736	09/27/1989
<i>Black Box Corporation</i>	Guide to cable properties / editor, Mark Kenny	TX00004666876	03/16/1998
<i>Black Box Corporation</i>	Guide to local and remote communications	TX00004665873	11/10/1997
<i>Black Box Corporation</i>	Intelligent connections	TX00003344565	06/22/1992
<i>Black Box Corporation</i>	Knowledge Box : expert insight into the world of technology.	CSN0130572	1999
<i>Black Box Corporation</i>	LAN Catalog	CSN0076961	1998
<i>Black Box Corporation</i>	LAN Catalog : a publication of Black Box Corporation.	CSN0082538	1989-1991
<i>Black Box Corporation</i>	LAN Connections	CSN0079841	1988
<i>Black Box Corporation</i>	Special products : catalog / from Black Box Corporation	CSN0086012	1989
<i>Black Box Corporation</i>	The Black Box Cable Catalog	CSN0078762	1988
<i>Black Box Corporation</i>	The Knowledge Box	TX00004258849	06/25/1999
<i>Black Box Corporation</i>	The Knowledge Box : expert insight into the world of technology	CSN0130572	1999-2000
<i>Black Box Corporation</i>	The Modem catalog : a complete reference and buyer's guide to modems	CSN0080081	1988

<i>Black Box Corporation</i>	System 3X catalog : solutions guide for the I B M system 34/36/38 user.	CSN0078057	1988
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