

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5647702

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	BLUEDATA SOFTWARE, INC.	04/30/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	Hewlett Packard Enterprise Development LP	
<b>Street Address:</b>	11445 Compaq Center Drive West	
<b>City:</b>	Houston	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77070	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14805758
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>	(970) 898-7444	
<b>Email:</b>	hpe.ip.mail@hpe.com	
<b>Correspondent Name:</b>	HEWLETT PACKARD ENTERPRISE	
<b>Address Line 1:</b>	3404 E. HARMONY ROAD MS 79	
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<b>ATTORNEY DOCKET NUMBER:</b>	90737832	
<b>NAME OF SUBMITTER:</b>	DEBORAH HIGHAM	
<b>SIGNATURE:</b>	/Deborah Higham/	
<b>DATE SIGNED:</b>	08/01/2019	
<b>Total Attachments: 7</b>		
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Patent Assignment (Short Form)  
Between BlueData Software, Inc. and HPED LP

## PATENT ASSIGNMENT

This **PATENT ASSIGNMENT** (this “Assignment”), effective as of April 30, 2019, (the “Effective Date”), is entered into by and between **BlueData Software, Inc.** (“Assignor”), a corporation organized under the laws of Delaware and having its principal place of business at 6280 America Center Drive, San Jose, CA 95002, U.S.A., and **Hewlett Packard Enterprise Development LP** (“Assignee”), a limited partnership organized under the laws of Texas and having its principal place of business at 11445 Compaq Center Drive West, Houston, TX 77070, U.S.A. Assignor and Assignee are referred to herein individually as a “Party” and collectively as the “Parties”.

## RECITALS

WHEREAS Assignor and Assignee are parties to that certain Bluedata Intellectual Property And Licensor Rights Assignment Agreement dated April 30, 2019, pursuant to which Assignor assigned and transferred to Assignee all rights, title, and interests in and to the patents and patent applications scheduled in Exhibit A (“Patents”), and Assignee desires to record such transfer and assignment;

WHEREAS, the Parties wish to record such acquisition.

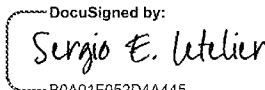
NOW, THEREFORE, for good and valuable consideration, the adequacy and receipt of which are hereby acknowledged, the Parties agree as follows:

1. Assignor shall assign and does hereby assigns to Assignee all rights, title, and interests, throughout the world, in and to the Patents, including, without limitation, the right to sue for injunctive relief and damages (including based on provisional rights related to published patent applications among the Patents) for infringement of any of the Patents accruing at any time prior to, on or after the Effective Date, and the right (where applicable) to file applications under the Paris Convention corresponding to or based on any of the applications for the Patents and to claim priority from such applications and to file national phase, regional phase, continuation, continuation-in-part and divisional applications based on the Patents.
2. Assignor hereby authorizes and requests the competent authorities to record this Assignment and to grant and issue any and all registrations of the Patents throughout the world to Assignee, its successors, or assigns, whose rights, title, and interests in such registrations are the same as would have been held and enjoyed by Assignor had this Assignment not been made.
3. Assignor will, and will ensure that any other necessary party will, execute all such documents and do all such acts and things as may be required by Assignee for securing and perfecting the assignment of the Patents in accordance with this Assignment.
4. This Assignment will be binding upon the Parties and their successors and assigns.
5. This Assignment may be executed simultaneously in two or more counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument. This Assignment may be executed by facsimile or .pdf signature, and a facsimile or .pdf signature will constitute an original for all purposes.

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IN WITNESS WHEREOF the Parties have executed this Assignment by their duly authorized representatives as of the Effective Date:

**BlueData Software, Inc.**

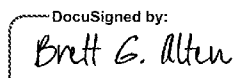
By:  DocuSigned by:  
B0A01F052D4A445...  
(Signature)

Sergio E. Letelier  
(Name)

Director, President and Secretary  
(Title)

5/1/2019  
(Execution Date)

**Hewlett Packard Enterprise Development LP**  
By: Enterprise DC Holdings LLC, its General Partner

By:  DocuSigned by:  
71BDE68BE0A8445B  
(Signature)

Brett G. Alten  
(Name)

Manager  
(Title)

4/30/2019  
(Execution Date)

Patent Assignment (Short Form)  
Between BlueData Software, Inc. and HPED LP

## EXHIBIT A

Title	Country Name	Filed Date	Serial #	Patent #	Issue Date	Setter Roche Docket No.
ACCELERATED DATA OPERATIONS IN VIRTUAL ENVIRONMENTS	United States of America	7/14/2014	14/330,928	10,055,254	8/21/2018	723.0001
ACCELERATED DATA OPERATIONS	United States of America	7/20/2018	16/041,323	n/a	n/a	723.0001c1
ACCELERATED DATA OPERATIONS IN VIRTUAL ENVIRONMENTS	United States of America	7/12/2013	61/845,479	n/a	n/a	723.0001P
HOST SYSTEM AND METHOD FOR MANAGING DATA CONSUMPTION RATE IN A VIRTUAL DATA PROCESSING ENVIRONMENT	United States of America	7/25/2014	14/341,596	n/a	n/a	723.0002
JOB MANAGER AND METHOD FOR MANAGING PROCESSING JOBS IN PROCESSING ENVIRONMENTS	United States of America	7/25/2013	61/858,463	n/a	n/a	723.0002P
CONFIGURATION MANAGER AND METHOD FOR CONFIGURING A HOST SYSTEM FOR PROCESSING A PROCESSING JOB IN A VIRTUAL DATA-PROCESSING ENVIRONMENT	United States of America	8/29/2014	14/472,562	9,619,248	4/11/2017	723.0003
CONFIGURATION MANAGER AND METHOD FOR CONFIGURING A HOST SYSTEM FOR PROCESSING A PROCESSING JOB IN A VIRTUAL DATAPROCESSING ENVIRONMENT	United States of America	2/6/2017	15/425,826	9,804,882	10/31/2017	723.0003c1
CONFIGURATION MANAGER AND METHOD FOR CONFIGURING PROCESSING JOBS IN VIRTUAL ENVIRONMENTS	United States of America	8/30/2013	61/872,451	n/a	n/a	723.0003P
JOB SUBMISSION ON A PERSISTENT CLUSTER FROM BLUEDATA PORTAL UI	United States of America	11/4/2013	61/899,656	n/a	n/a	723.0004P
PRIORITIZING DATA REQUESTS BASED ON QUALITY OF SERVICE	United States of America	12/16/2014	14/571,643	n/a	n/a	723.0006

PATENT

REEL: 049929 FRAME: 0547

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<b>Title</b>	<b>Country Name</b>	<b>Filed Date</b>	<b>Serial #</b>	<b>Patent #</b>	<b>Issue Date</b>	<b>Setter Roche Docket No.</b>
PRIORITIZING DATA CALLS BASED QUALITY OF SERVICE	United States of America	12/19/2013	61/918,446	n/a	n/a	723.0006P
PRIORITIZING SHARED MEMORY BASED ON QUALITY OF SERVICE	United States of America	9/11/2014	14/483,661	n/a	n/a	723.0007
PRIORITIZING SHARED MEMORY BASED ON QUALITY OF SERVICE	United States of America	2/4/2014	61/935,524	n/a	n/a	723.0007P
ALLOCATING CACHE MEMORY ON A PER DATA OBJECT BASIS	United States of America	12/18/2014	14/575,976	n/a	n/a	723.0008
COMPUTING SYSTEM INITIATION	United States of America	9/23/2014	14/493,933	n/a	n/a	723.0009
COMPUTING SYSTEM INITIATION	United States of America	2/4/2014	61/935,540	n/a	n/a	723.0009P
ASSOCIATING CACHE MEMORY WITH A WORK PROCESS	United States of America	4/29/2014	14/264,812	9,483,310	11/1/2016	723.0011
ASSOCIATING CACHE MEMORY WITH A WORK PROCESS	United States of America	10/26/2016	15/335,264	10,061,713	8/28/2018	723.0011c1
ASSOCIATING CACHE MEMORY WITH A WORK PROCESS	United States of America	8/27/2018	16/113,561	n/a	n/a	723.0011c2
ASSOCIATING CACHE MEMORY WITH A WORK PROCESS	China	10/28/2016	201580023517.5	n/a	n/a	723.0011CN
ASSOCIATING CACHE MEMORY WITH A WORK PROCESS	European Patent Office	1/6/2015	15785954.7	n/a	n/a	723.0011EP
ASSOCIATING CACHE MEMORY WITH A WORK PROCESS	PCT	1/6/2015	PCT/US2015/010240	n/a	n/a	723.0011WO
INTER-VERSION MAPPING OF DISTRIBUTED FILE SYSTEMS	United States of America	5/58/2014	14/288,506	n/a	n/a	723.0012
INTER-VERSION MAPPING OF DISTRIBUTED FILE SYSTEMS	China	11/28/2016	201580028177.5	n/a	n/a	723.0012CN
INTER-VERSION MAPPING OF DISTRIBUTED FILE SYSTEMS	European Patent Office	1/5/2015	15800015.8	n/a	n/a	723.0012EP

**PATENT**

**REEL: 049929 FRAME: 0548**

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<b>Title</b>	<b>Country Name</b>	<b>Filed Date</b>	<b>Serial #</b>	<b>Patent #</b>	<b>Issue Date</b>	<b>Setter Roche Docket No.</b>
INTER-VERSION MAPPING OF DISTRIBUTED FILE SYSTEMS	PCT	1/5/2014	PCT/US2015/010200	n/a	n/a	723.0012WO
ACCELERATED DATA OPERATIONS IN VIRTUAL ENVIRONMENTS	United States of America	7/14/2014	14/330,947	n/a	n/a	723.0016
DATA CONNECTORS IN LARGE SCALE PROCESSING CLUSTERS	United States of America	11/4/2014	14/532,289	n/a	n/a	723.0017
LARGE SCALE PROCESSING CLUSTER MANAGEMENT	United States of America	10/23/2014	62/067,518	n/a	n/a	723.0018P
ALLOCATION OF LARGE SCALE PROCESSING JOB PROCESSES TO HOST COMPUTING SYSTEMS	United States of America	3/10/2015	14/643,504	n/a	n/a	723.0019
ALLOCATION OF JOB PROCESSES TO HOST COMPUTING SYSTEMS BASED ON ACCOMMODATION DATA	United States of America	5/11/2015	14/708,519	n/a	n/a	723.0020
EMPLOYING APPLICATION CONTAINERS IN A LARGE SCALE PROCESSING ENVIRONMENT	United States of America	7/22/2015	14/805,758	9,524,183	12/20/2016	723.0025
EMPLOYING APPLICATION CONTAINERS IN A LARGE SCALE PROCESSING ENVIRONMENT	United States of America	12/15/2016	15/380,518	9,817,692	11/14/2017	723.0025c1
EMPLOYING APPLICATION CONTAINERS IN A LARGE SCALE PROCESSING ENVIRONMENT	United States of America	10/19/2017	15/788,207	n/a	n/a	723.0025c2
ALLOCATION OF VIRTUAL CLUSTERS IN A LARGE-SCALE PROCESSING ENVIRONMENT	United States of America	8/25/2015	14/834,594	n/a	n/a	723.0026
MANAGEMENT OF DOMAIN NAME SYSTEMS IN A LARGE-SCALE PROCESSING ENVIRONMENT	United States of America	12/9/2015	14/964,472	10,129,201	11/13/2018	723.0029
MANAGEMENT OF DOMAIN NAME SYSTEMS IN A LARGE-SCALE PROCESSING ENVIRONMENT	United States of America	11/12/2018	16/186,841	n/a	n/a	723.0029c1

**PATENT**

**REEL: 049929 FRAME: 0549**

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<b>Title</b>	<b>Country Name</b>	<b>Filed Date</b>	<b>Serial #</b>	<b>Patent #</b>	<b>Issue Date</b>	<b>Setter Roche Docket No.</b>
DATA CACHING IN A LARGE-SCALE PROCESSING ENVIRONMENT	United States of America	11/24/2015	14/950,860	n/a	n/a	723.0032
AUTOMATICALLY ENABLING EDGE NODE ADD-ONS TO VIRTUAL CLUSTERS	United States of America	1/20/2016	15/001,735	n/a	n/a	723.0033
LARGE SCALE PROCESSING CLUSTER MANAGEMENT	United States of America	6/25/2015	62/184,750	n/a	n/a	723.0034P
ALLOCATION OF PORT ADDRESSES IN A LARGE-SCALE PROCESSING ENVIRONMENT	United States of America	12/18/2015	14/975,500	n/a	n/a	723.0035
PARALLEL DISTRIBUTION OF APPLICATION SERVICES TO VIRTUAL NODES	United States of America	5/3/2016	15/145,574	n/a	n/a	723.0043
ELASTIC PRIVATE INSTANT CLUSTER SOFTWARE ARCHITECTURE	United States of America	3/3/2016	62/303,106	n/a	n/a	723.0046P
GENERATION AND DEPLOYMENT OF SCRIPTS FOR LARGE SCALE PROCESSING FRAMEWORK SERVICES	United States of America	9/20/2016	15/270,797	10,146,519	12/4/2018	723.0049
GENERATION AND DEPLOYMENT OF SCRIPTS FOR LARGE SCALE PROCESSING FRAMEWORK SERVICES	United States of America	11/15/2018	16/192,547	n/a	n/a	723.0049c1
ENHANCED CACHE MEMORY ALLOCATION BASED ON VIRTUAL NODE RESOURCES	United States of America	1/4/2018	15/861,983	n/a	n/a	723.0052
ENHANCED CACHE MEMORY ALLOCATION BASED ON VIRTUAL NODE RESOURCES	PCT	12/21/2018	PCT/US18/67064	n/a	n/a	723.0052WO
ENHANCED DATA STORAGE OF VIRTUAL NODES IN A DATA PROCESSING ENVIRONMENT	United States of America	10/19/2018	16/165,642	n/a	n/a	723.0053
ENHANCED DATA STORAGE AND VERSIONING OF VIRTUAL NODES IN A DATA PROCESSING ENVIRONMENT	United States of America	1/11/2019	16/245,624	n/a	n/a	723.0053d1

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**REEL: 049929 FRAME: 0550**



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Title	Country Name	Filed Date	Serial #	Patent #	Issue Date	Setter Roche Docket No.
ENHANCED MANAGEMENT OF STORAGE REPOSITORY AVAILABILITY IN A VIRTUAL ENVIRONMENT	United States of America	1/11/2019	16/245,776	n/a	n/a	723.0056
ENHANCED CONFIGURATION MANAGEMENT OF DATA PROCESSING CLUSTERS	United States of America	4/5/2019	16/376,057	n/a	n/a	723.0055

PATENT

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RECORDED: 08/01/2019