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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4328813

SUBMISSION TYPE:	I TYPE: NEW ASSIGNMENT				
NATURE OF CONVEYA	NCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	ΔΑΤΑ				
		Name	Execution Date		
GEOFFREY NDU			01/31/2017		
PRATYUSA K MANAD	НАТА		01/31/2017		
CHRISTOPHER I DAL	TON		01/31/2017		
ADRIAN SHAW			01/31/2017		
STUART HABER			03/16/2017		
RECEIVING PARTY D	ΔΤΔ				
Name:		t Packard Enterprise Development LP			
Street Address:	11445	Compaq Center Drive West			
City:	Housto	n			
State/Country:	TEXAS	3			
Postal Code:	77070				
PROPERTY NUMBER Property Type		Number			
Application Number:15420736					
	be sent t f provide	o the e-mail address first; if that is uns d; if that is unsuccessful, it will be sen (970) 898-7444 hpe.ip.mail@hpe.com HEWLETT PACKARD ENTERPRISE			
Address Line 1: Address Line 4:	•	3404 E. HARMONY ROAD MS 79 FORT COLLINS, COLORADO 80528			
Address Line 1: Address Line 4:		FORT COLLINS, COLORADO 80528			
Address Line 1: Address Line 4: ATTORNEY DOCKET N	IUMBER:	FORT COLLINS, COLORADO 80528 90311826			
Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER	IUMBER:	FORT COLLINS, COLORADO 80528 90311826 DEBORAH HIGHAM			
Address Line 1: Address Line 4: ATTORNEY DOCKET N	IUMBER:	FORT COLLINS, COLORADO 80528 90311826			
Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE:	IUMBER:	FORT COLLINS, COLORADO 80528 90311826 DEBORAH HIGHAM /Deborah Higham/ 03/21/2017			

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Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79 Fort Collins, Colorado 80528 PATENT APPLICATION

RECORD ID:

90311826

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to Hewlett Packard Enterprise Development LP, a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPED), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPED, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent entitled:

INPUT/OUTPUT DATA ENCRYPTION

Filing Date: Application No.:

IN WITNESS WHEREOF. I/we bereunto set my/our hand(s) and seal(s):

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent.

I/we additionally authorize HPED to file applications in my/our name for Patent in any country, to be held and enjoyed by HPED, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to HPED, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPED, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPED, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPED;

AND I/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPED, as assignee of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

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and	N		3 t	JAN 2017
Inventor's Signature	······································		Date	-
Geoffrey	Ndu			
First/Middle Name	Last Name			
Inventor's Signature			Date	
Pratyusa K	Manadhata			
First/Middle Name	Last Name			
Rev 06/15		Page 1 of 2		

Hewiett Packard Enterprise 3404 E. Harmony Road Mail Stop 79 Fort Collins, Colorado 80528	perr	DRD ID:	PATENT APPLICATION 90311826
	ASSIGNMENT OF PATENT APPLIC		
Inventor's Signature		Date	
Chris I Dalton			
First/Middle Name/Last Name			
Inventor's Signature		Date	
Adrian Shaw			
First/Middle Name/Last Name			
Inventor's Signature		Date	
Stuart Haber			
First/Middle Name/Last Name			
Inventor's Signature		Date	
First/Middle Name/Last Name			
Inventor's Signature		Date	
First/Middle Name/Last Name			
Inventor's Signature		Date	
First/Middle Name/Last Name			

Hewlett Packard Enterprise

Page 2 of 2

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79 Fort Collins, Colorado 80528

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Inventor's Signature		Date		
Geoffrey	Ndu			
First/Middle Name	Last Name		-	
Inventor's Signature			Date	
Pratyusa K	Manadhata			
First/Middle Name	Last Name		-	
Rev 06/15		Page 1 of 2		

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79			PATENT APPLICATION
Fort Collins, Colorado 80528		RECORD ID:	90311826
	ASSIGNMENT OF PATEN	T APPLICATION (coi	nt.)
Inventor's Signature		Date	
Christopher I	Dalton		
First/Middle Name	Last Name		
A.L.S.			31 Jan 2017
Inventor's Signature		Date	
Adrian	Shaw		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Stuart	Haber		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Rev 06/15	Page 2 c	of 2	

PATENT APPLICATION

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79 Fort Collins, Colorado 80528

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Inventor's Signature			Date
Geoffrey	Ndu		_
First/Middle Name	Last Name		
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inventor's Signature	1/2		Date / /
Pratyusa K	V Manadhata		
First/Middle Name	Last Name		
Rev 06/15		Page 1 of 2	

<u>Undjela</u>	. <u>r. Du</u>	<u> </u>	31/01/17	•••
Inventor's Signature * Christopher I	Dalton		Date	
First-Middle Name	Last Name			
Inventor's Signature			Date	
Adrian	Shaw			
First/Middle Name	Last Name			
Inventor's Signature			Date	
Stuart	Haber			
First/Mickile Name	Last Name			
inventor's Signature			Date	
First/Middle Name	Last Name			
Inventor's Signature			Date	
First Middle Name	LastNome			
inventor's Signature			Date	
First/Middle Name	Last Name			

Hewlett Packard Enterprise 3404 E. Harmony Road		PATENT APPLICATION
Mail Stop 79	RECORD ID:	90311826
Fort Collins, Colorado 80528	RECORD ID:	50011020

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Inventor's Signature		,, <u>,</u> ,,	Date	
Geoffrey	Ndu			
First/Middle Name	Last Name			
Inventor's Signature			Date	
Pratyusa K	Manadhata			
First/Middle Name	Last Name			
Rev 06/15		Page 1 of 2		

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79 Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID: _____ 90311826

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature			Date
Christopher I	Dalton		
First/Middle Name	Last Name		
Inventor's Signature			Date
Adrian	Shaw		
First/Middle Name	Last Name		
Inventor's Signature			<u>3/16/17</u> Date
Stuart	Haber		
First/Middle Name	Last Name		
Inventor's Signature			Date
First/Middle Name	Last Name		
Inventor's Signature			Date
First/Middle Name	Last Name		
Inventor's Signature			Date
First/Middle Name	Last Name		
Rev 06/15		Page 2 of 2	

RECORDED: 03/21/2017