

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.	10/27/2015
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<b>Postal Code:</b>	77070
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
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<b>DATE SIGNED:</b>	05/22/2018
<b>Total Attachments: 3</b>	
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PATENT ASSIGNMENT Hewlett-Packard Development Company, L.P. TO  
Hewlett Packard Enterprise Development LP

**PATENT ASSIGNMENT**  
**FROM**  
**Hewlett-Packard Development Company, L.P.**  
**TO**  
**Hewlett Packard Enterprise Development LP**

This Patent Assignment, together with the attached Schedule A, is effective as of October 2, 2015.

WHEREAS, **Hewlett-Packard Development Company, L.P.**, a limited partnership established under the laws of the State of Texas and having a principal place of business at 11445 Compaq Center Drive West, Houston, Texas 77070, U.S .A. (hereinafter referred to as "Assignor"), is the legal title holder of the patents and patent applications identified in the attached Schedule A (collectively referred to as "Assigned Patents and Patent Applications");

WHEREAS, **Hewlett Packard Enterprise Development LP**, a limited partnership established under the laws of the State of Texas and having a principal place of business at 11445 Compaq Center Drive West, Houston, Texas 77070, U.S .A. (hereinafter referred to as "Assignee") desires to acquire Assignor's entire right, title and interest, including the right of priority, in, to and under the Assigned Patents and Patent Applications; and

NOW THEREFORE, for good and valuable consideration, the adequacy of which is hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby assigns, transfers, conveys and delivers to Assignee the entirety of Assignor's right, title and interest, including without limitation the right of priority, in, to and under the Assigned Patents and Patent Applications, and any inventions and improvements set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for any of the Assigned Patents and Patent Applications, and any and all patents and patent applications of the United States and of foreign countries thereto that may be granted thereon or therefor, and any reissues, or reexaminations, or extensions thereof and any goodwill of the business symbolized by the Assigned Patents and Patent Applications, and the registration thereof. Assignee shall have the right to sue, counterclaim and recover for past, present, and future

PATENT ASSIGNMENT Hewlett-Packard Development Company, L.P. TO  
Hewlett Packard Enterprise Development LP

infringement and collect any royalties to third parties, damages (including past damages), or other income relating to the Assigned Patents and Patent Applications.

In connection with the foregoing, Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to record the transfer of the Assigned Patents to Assignee as assignee of Assignor's right, title and interest therein, and to issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the entire interest therein.

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their authorized representatives.

**FOR HEWLETT-PACKARD DEVELOPMENT  
COMPANY, L.P.**

**FOR HEWLETT PACKARD  
ENTERPRISE DEVELOPMENT LP**

By: HPQ Holdings, LLC, its General Partner

By: Enterprise DC Holdings LLC, its General  
Partner

DocuSigned by:  
By: Robert Wasson  
Signature 3BF673837B481...

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By: Curtis G. Rose  
Signature 016629078F4D3...

Robert D. Wasson  
Name

Curtis G. Rose  
Name

Chief Patent Counsel  
Title

Chief Intellectual Property Counsel  
Title

October 27, 2015  
Date

October 27, 2015  
Date

## Schedule A of Patent Assignment

HP Record ID	Status	Patent Number	Filing Date	Grant Date	Application Number	CC	Title
84261434	Application		5/29/2015		PCT/US2015/033120	PCT	APPLICATION OF NETWORK FLOW RULE ACTION BASED ON PACKET COUNTER
84261443	Application		7/31/2015		PCT/US2015/043165	PCT	Hybrid coherence: A combination of directory-based and snoopy coherence with dynamic mode switching for accelerated node-to-node transfers in systems with high node counts
84261451	Application		7/27/2015		PCT/US2015/042260	PCT	HEAT DISSIPATION FOR DIES
84261475	Application		5/28/2015		PCT/US2015/032986	PCT	SECURITY VULNERABILITY DETECTION
84261521	Application		6/26/2015		PCT/CN2015/082512	PCT	LATENT TOPIC DETERMINATION
84261529	Application		8/14/2015		PCT/US2015/045327	PCT	DYNAMIC LEXER OBJECT CONSTRUCTION
84261626	Application		8/28/2015		PCT/US2015/047474	PCT	SOFTWARE PATCH FIX BASED ON CHECKSUMS
84262279	Application		8/12/2015		PCT/US2015/044849	PCT	Serdes Link Management
84262290	Application		7/23/2015		PCT/US2015/041815	PCT	BIOS Controlled Method for Preserving System Volatile Memory to Persistent Storage
84262328	Application		7/30/2015		PCT/US2015/042992	PCT	NETWORK TRAFFIC PATTERN BASED MACHINE READABLE INSTRUCTION IDENTIFICATION
84262411	Application		7/17/2015		PCT/US2015/040877	PCT	MEMRISTOR ARRAY WITH ACTIVE MEMRISTORS
84262516	Application		8/14/2015		PCT/US2015/045376	PCT	MECHANISMS TO RESET CIRCUIT BREAKERS
84262520	Application		6/5/2015		PCT/US2015/034375	PCT	DATA BLOCK WRITE MAPPED TO MEMORY BANK
84262528	Application		7/31/2015		PCT/US2015/043303	PCT	BLIND MATE SLEDS AND BASES FOR STORAGE DEVICES
84262571	Application		9/23/2015		PCT/US2015/051612	PCT	SIDEWALL ANTI-CATION-DIFFUSION BARRIER
84262583	Application		9/24/2015		PCT/US2015/051807	PCT	COMMUNICATION PATH LOSS
84262639	Application		9/24/2015		PCT/US2015/051882	PCT	SELECTOR WITH POROUS OXIDE LAYER
84262683	Application		7/27/2015		PCT/US2015/042188	PCT	COMPONENT COMPATIBILITY VERIFICATION
84262702	Application		7/22/2015		PCT/US2015/041594	PCT	STARTUP CIRCUIT TO INITIALIZE VOLTAGE REFERENCE CIRCUIT
84262714	Application		9/23/2015		PCT/US2015/051596	PCT	SNAPSHOT STORAGE MANAGEMENT
84262720	Application		7/30/2015		PCT/US2015/043026	PCT	FIRMWARE UPDATE OF AN INTERCONNECT DEVICE
84262748	Application		9/4/2015		PCT/US2015/048713	PCT	SECURE LOGIN INFORMATION
84262768	Application		7/8/2015		PCT/US2015/039543	PCT	PHOTONIC CIRCUIT DESIGN SYSTEMS
84262780	Application		6/1/2015		PCT/US2015/033530	PCT	RING PROTECTION NETWORK MODULE
84262792	Application		9/4/2015		PCT/US2015/048728	PCT	HYBRID GRAPH PROCESSING
84262797	To Be Filed					PCT	A High-Performance In-Memory Data Shuffling Engine
84262805	Application		7/23/2015		PCT/US2015/041735	PCT	RING WAVEGUIDE MODULATORS
84262817	Application		9/4/2015		PCT/US2015/048492	PCT	PUMP BASED ISSUE IDENTIFICATION
84262834	To Be Filed					PCT	Usage Hints for Shared Data Structures
84262851	Application		7/23/2015		PCT/US2015/041814	PCT	MIGRATION FOR CLOUD MANAGEMENT SYSTEMS
84262892	Application		7/31/2015		PCT/US2015/043207	PCT	ACTIVATION OF A SWITCH TO INCREASE DUTY CYCLE
84262900	Application		6/4/2015		PCT/US2015/034276	PCT	DETERMINING LOCATION OF WIRELESS-ENABLED DEVICE
84262908	Application		6/22/2015		PCT/US2015/036901	PCT	CONTROL OF APPLICATION LOG CONTENT

PATENT

RECORDED: 05/22/2018

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