## 504729511 01/15/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY DA	ΔΤΑ	1			
		Name		Execution Date	
VAMSI KODAVANTY				01/11/2018	
RECEIVING PARTY DA	ТА				
Name:		Packard Enterprise Development	t LP		
Street Address:		compaq Center Drive West			
City:	Houston				
State/Country:	TEXAS				
Postal Code:	77070				
Property Type		<b>Number</b> 5871338			
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Hewlett Packard Enterprise 3404 E. Harmony Road		PATENT APPLICATION
Mail Stop 79 Fort Collins, Colorado 80528	RECORD ID:	90521174
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## 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:

MODIFICATIONS OF HEADEND FORWARDING RULES TO JOIN WIDE AREA NETWORK BRANCH HOSTS TO MULTICAST GROUPS

Filing Date:	 Application No.:	
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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 l/we hereby covenant that l/we have full right to convey the entire interest herein assigned, and that l/we have not executed and will not execute any agreement in conflict herewith, and l/we further covenant and agree that l/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 l/we agree to communicate to HPED, or to its nominee, all known facts respecting said invention(s) or improvement(s), said applications, C-I-P's, release and foreign applications, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, release and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to ald HPED, its successors, assigns, nominees and legal representatives (o obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) and enforce for 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 aforessaid, 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 aforessaid, in accordance with the terms of this assignment.

I/we further authorize and direct the attorneys of record to insert the filling date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

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

Inventor's Signature

01/11/2018 Date

Vamsi Kodavanty

First/Middle Name/Last Name

Inventor's Signature

Date

First/Middle Name/Last Name

Ray 06/15

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