

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM347337

| | | | |
|---|-------------------------------------|--------------------------------------|--|
| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
| NATURE OF CONVEYANCE: | RELEASE OF SECURITY INTEREST | | |
| CONVEYING PARTY DATA | | | |
| Name | Formerly | Execution Date | Entity Type |
| OPUS BANK | | 07/08/2015 | CALIFORNIA COMMERCIAL BANK: CALIFORNIA |
| RECEIVING PARTY DATA | | | |
| Name: | MERU NETWORKS, INC. | | |
| Street Address: | 894 ROSS DRIVE | | |
| City: | SUNNYVALE | | |
| State/Country: | CALIFORNIA | | |
| Postal Code: | 94089 | | |
| Entity Type: | CORPORATION: DELAWARE | | |
| PROPERTY NUMBERS Total: 10 | | | |
| Property Type | Number | Word Mark | |
| Registration Number: | 4339012 | WIRELESS LIKE WIRE | |
| Registration Number: | 4328571 | WIRELESS WELLNESS | |
| Registration Number: | 4339054 | ALL WIRELESS ENTERPRISE | |
| Registration Number: | 4339053 | POWERING THE ALL WIRELESS ENTERPRISE | |
| Registration Number: | 3063250 | MERU NETWORKS | |
| Registration Number: | 3785191 | MERU | |
| Registration Number: | 3948169 | AIRTIME FAIRNESS | |
| Registration Number: | 3948090 | AIR TRAFFIC CONTROL | |
| Registration Number: | 4125671 | E(Z)RF | |
| Serial Number: | 85755116 | MFLEX | |
| CORRESPONDENCE DATA | | | |
| Fax Number: | 7037707901 | | |
| <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> | | | |
| Phone: | 650.233.4500 | | |
| Email: | Judy.Keeley@pillsburylaw.com | | |
| Correspondent Name: | DAVID A. JAKOPIN | | |
| Address Line 1: | P.O. BOX 10500-IP GROUP | | |
| Address Line 2: | PILLSBURY WINTHROP SHAW PITTMAN LLP | | |

CH \$265.00 4339012

Address Line 4: MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER: 044095-0000038

NAME OF SUBMITTER: DAVID A. JAKOPIN

SIGNATURE: /David A. Jakopin/

DATE SIGNED: 07/08/2015

Total Attachments: 9

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INTELLECTUAL PROPERTY SECURITY INTEREST RELEASE

THIS INTELLECTUAL PROPERTY SECURITY INTEREST RELEASE (the "Release") is made by **OPUS BANK**, a California Commercial Bank ("Opus" or "Lender") in favor of **MERU NETWORKS, INC.**, a Delaware corporation (herein referred to as "Owner")


Opus hereby confirms that it had certain arrangements with Debtor under that certain Credit Agreement dated as of May 22, 2015 between Owner and Opus (the "Credit Agreement") and related General Security Agreement dated as of May 22, 2015 between Owner and Opus (as the "Security Agreement") pursuant to which Owner granted to Opus security interests and liens in certain of its property.

Opus hereby releases any security interest or lien it has or may have had pursuant to the Credit Agreement or Security Agreement in the patents, trademarks and copyrights of Owner indicated in Schedules A, B and C attached hereto (the "Intellectual Property").

At the request of Owner or any buyer of the Intellectual Property, Opus agrees to execute reasonable releases and other documents or agreements as Owner or any such buyer may reasonably request to confirm the release described above and to reflect such release of record.

Dated: July 8th, 2015,

OPUS BANK,

By: 
Name: Kevin P. McBride
Its: Senior Managing Director

Address:

19900 MacArthur Boulevard
12th Floor
Irvine, California 92612
Attn: Credit Administration

**Schedule A to the
IP Security Interest Release**

PATENTS:

| No. | USPTO STATUS | ATTY NO. | APP NO. | PAT NO. | FILING DATE | TITLE |
|-----|--------------|----------|------------|---------|-------------|--|
| 1. | Issued | MER-001 | 11/294,673 | 8160664 | 12/5/2005 | Omni Directional Antenna Supporting Simultaneous Transmission and Reception of Multiple Radios with Narrow Frequency Separation |
| 2. | Issued | MER-003 | 11/396,400 | 8064601 | 3/31/2006 | Security in Wireless Communication Systems |
| 3. | Issued | MER-004 | 11/525,246 | 7808908 | 9/20/2006 | Wireless Rate Adaptation |
| 4. | Issued | MER-002 | 11/715,287 | 7826426 | 3/7/2007 | Seamless Mobility in Wireless Networks |
| 5. | Issued | MER-008 | 11/897,001 | 8010820 | 8/28/2007 | Controlling Multiple Radio Wireless Communication Access Points When Using Power Over Ethernet |
| 6. | Issued | MER-010 | 11/899,998 | 7894436 | 9/7/2007 | Flow Inspection |
| 7. | Issued | MER-018 | 12/120,166 | 8081589 | 5/13/2008 | Access Points Using Power Over Ethernet |
| 8. | Issued | MER-019 | 12/123,260 | 7756059 | 5/19/2008 | Differential Signal-to-Noise Ratio Based Rate Adaption |
| 9. | Issued | MER-001C | 12/134,105 | 8103311 | 6/5/2008 | Omni-Directional Antenna Supporting Simultaneous Transmission and Reception of Multiple Ratios with Narrow Frequency Separation |
| 10. | Issued | MER-011 | 12/208,924 | 8145136 | 9/11/2008 | Wireless Diagnostics |
| 11. | Issued | MER-021C | 12/272,364 | 8144668 | 11/17/2008 | Multuser Detection and Interference Suppression Techniques for Direct Sequence Spread Spectrum Systems in Which All Users Employ Same Spreading Code |

| No. | USPTO STATUS | ATTY NO. | APP NO. | PAT NO. | FILING DATE | TITLE |
|-----|--------------|----------|------------|---------|-------------|--|
| 12. | Issued | MER-021 | 11/164,868 | 7453855 | 11/18/2008 | Multuser Detection and Interference Suppression Techniques for Direct Sequence Spread Spectrum Systems in Which All Users Employ Same Spreading Code |
| 13. | Issued | MER-025 | 12/388,346 | 8238834 | 2/18/2009 | Diagnostic Structure for Wireless Networks |
| 14. | Issued | MER-041 | 12/418,292 | 8284191 | 4/3/2009 | Three-Dimensional Wireless Virtual Reality Presentation |
| 15. | Issued | MER-009 | 11/899,997 | 8295177 | 9/7/2007 | Flow Classes |
| 16. | Issued | MER-023 | 12/194,289 | 8325753 | 8/19/2008 | Selective Suppression of 802.11 ACK Frames |
| 17. | Issued | MER-013 | 12/465,537 | 8344953 | 5/13/2009 | Omni-Directional Flexible Antenna Support Panel |
| 18. | Issued | MER-020 | 12/487,156 | 8369794 | 6/18/2009 | Adaptive Carrier Sensing and Power Control |
| 19. | Issued | MER-019C | 12/828,014 | 8456993 | 6/30/2010 | Differential Signal-to-Noise Ratio Base Rate Adaption |
| 20. | Issued | MER-028 | 12/964,735 | 8472359 | 12/9/2010 | Seamless Mobility in Wireless Networks |
| 21. | Issued | MER-006 | 12/191,545 | 8522353 | 8/14/2008 | Blocking IEEE 802.11 Wireless Access |
| 22. | Issued | MER-022 | 12/255,901 | 8599734 | 10/22/2008 | TCP Proxy Acknowledgements |
| 23. | Issued | MER-004C | 12/866,237 | 8767548 | 9/20/2010 | Wireless Rate Adaption |
| 24. | Issued | MER-002C | 12/913,584 | 8787309 | 10/27/2010 | Seamless Mobility in Wireless Networks |

SCHEDULE B TO THE INTELLECTUAL PROPERTY AGREEMENT

| No. | USPTO STATUS | ATTY NO. | APP NO. | PAT NO. | FILING DATE | TITLE |
|-----|--------------|-----------|------------|---------|-------------|--|
| 25. | Issued | MER-005 | 12/191,421 | 8799648 | 8/14/2008 | Wireless Network Controller Certification Authority |
| 26. | Issued | MER-003C | 13/290,345 | 8867744 | 11/7/2011 | Security in Wireless Communication Systems |
| 27. | Issued | MER-015 | 12/425,098 | 8893252 | 4/16/2009 | Wireless Communication Selective Barrier |
| 28. | Issued | MER-016 | 12/978,207 | 8903320 | 12/23/2010 | Operating Wireless Communication Systems in Close Proximity |
| 29. | Issued | MER-044 | 13/858,006 | 8929341 | 4/6/2013 | Access Point for Surveillance of Anomalous Devices |
| 30. | Issued | MER-026 | 13/032,917 | 8941539 | 2/23/2013 | Dual-Stack Dual-Band MIMO Antenna |
| 31. | Issued | MER-019C2 | 13/872,076 | 8958334 | 4/27/2013 | Differential Signal-to-Noise Ratio Based Rate Adaption |
| 32. | Issued | MER-010C | 12/827,295 | 8995459 | 6/30/2010 | Flow Inspection |
| 33. | Issued | MER-046 | 13/763,639 | 9025581 | 2/9/2013 | Hybrid Virtual Cell and Virtual Port Network Architectures |
| 34. | All/ABD | MER-017 | 12/976,717 | | 12/22/2010 | Optimizing Quality of Service in Wireless Networks |
| 35. | Allowed | MER-039 | 13/746,289 | | 1/21/2013 | Distributed Client Steering Algorithm to a Best-Serving Access Point |
| 36. | Negotiating | MER-007 | 11/894,598 | | 8/20/2007 | Multitier Wireless Data Distribution |
| 37. | Negotiating | MER-012 | 12/035,925 | | 2/22/2008 | Associating Mobile Stations with Virtual Cells Using Key Search |

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| No. | USPTO STATUS | ATTY NO. | APP NO. | PAT NO. | FILING DATE | TITLE |
|-----|--------------|----------|------------|---------|-------------|---|
| 38. | Negotiating | MER-014 | 12/496,426 | | 7/1/2009 | Wireless Communication Antennae |
| 39. | Negotiating | MER-024 | 12/550,061 | | 8/28/2009 | Seamless Roaming in Wireless Networks |
| 40. | Negotiating | MER-029 | 13/168,528 | | 6/24/2011 | Voice Adaptation for Wireless Communication |
| 41. | Negotiating | MER-035 | 13/358,401 | | 1/25/2012 | Blocking Communication Between Rogue Devices |
| 42. | Negotiating | MER-027 | 13/032,302 | | 2/22/2011 | Multicast and Unicast Messages in a Virtual Cell Communication System |
| 43. | Negotiating | MER-038 | 13/422,043 | | 3/15/2012 | Repurposing Protocol Messages to Facilitate Handoff |
| 44. | Negotiating | MER-033 | 13/426,703 | | 3/22/2012 | Wi-Fi Virtual Port Uplink Medium Access Control |
| 45. | Negotiating | MER-034 | 13/354,264 | | 1/19/2012 | Automatic Channel Layering |
| 46. | Negotiating | MER-047 | 13/722,358 | | 2/21/2013 | Restricting Broadcast and Multicast Traffic in a Wireless Network to a VLAN |
| 47. | Negotiating | MER-045 | 13/656,408 | | 10/19/2012 | Increasing Access Point Throughput by Exceeding A-MPDU Buffer Size Limitation in a 802.11 Compliant Station |
| 48. | Negotiating | MER-028C | 13/872,073 | | 4/27/2013 | Seamless Mobility in Wireless Networks |
| 49. | Filed | MER-032D | 14/609,443 | | 1/30/2015 | Voice Adaptation for Wireless Communication |
| 50. | Filed | MER-048 | 13/936,213 | | 7/8/2013 | Deauthenticating and disassociating unauthorized access points with spoofed management frames |

SCHEDULE B TO THE INTELLECTUAL PROPERTY AGREEMENT

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|-----|--------------|-----------|------------|---------|-------------|--|
| 51. | Filed | MER-051 | 14/481,914 | | 9/9/2014 | Steering inherently Autonomous Wireless Devices to Access Points Based on Mimo (Multiple Input/Multiple Output) Capabilities of Network Components |
| 52. | Filed | MER-002C2 | 14/337,184 | | 7/21/2014 | Seamless Mobility in Wireless Networks |
| 53. | Filed | MER-059P | 62/048,243 | | 9/9/2014 | Alternative Network Communication For Access Point Troubleshooting and Monitoring |
| 54. | Filed | MER-057 | 14/514,359 | | 10/14/2014 | Dynamic Generation of Per-Station Realm Lists for Hot Spot Connections |
| 55. | Filed | MER-058 | 14/514,420 | | 10/15/2014 | Optimizing Multimedia Streaming in WLANS (Wireless Local Access Networks) |
| 56. | Filed | MER-060 | 14/504,403 | | 10/1/2014 | Aggregated Beacons for Per Station Control of Multiple Stations Across Multiple Access Points in a Wireless Communication Network |
| 57. | Filed | MER-061 | 14/504,394 | | 10/1/2014 | Emulating Virtual Port Control of Airtime Fairness Using Per Station Enhanced Distributed Channel Access (EDCA) Parameters |
| 58. | Filed | MER-062 | 14/515,527 | | 10/16/2014 | Beacon to Advertise Presence of Nearby Objects to Stations in a Wireless Communication Network |
| 59. | Filed | MER-065 | 14/515,502 | | 10/15/2014 | Self-Provisioning of a Wireless Communication Network Using Coordination of Data Plane Behavior to Steer Stations to Preferred Access Points |
| 60. | Filed | MER-066 | 14/515,506 | | 10/15/2014 | Instant Messenger Application For Interacting With Network Infrastructure Devices |
| 61. | Filed | MER-068 | 14/515,508 | | 10/15/2014 | The Detection of Spoof Attacks on Location Broadcasting Beacons |
| 62. | Filed | MER-063P | 62/094,936 | | 12/19/2014 | Secured RF (Radio Frequency) Tags For Locating Users |
| 63. | Filed | MER-070 | 14/581,344 | | 12/23/2014 | Power Saving In Wi-Fi Devices Utilizing Bluetooth |

SCHEDULE B TO THE INTELLECTUAL PROPERTY AGREEMENT

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|-----|--------------|----------|------------|---------|-------------|---|
| 64. | Filed | MER-053P | 62/098,287 | | 12/30/2014 | Load Balancing for Cloud-Based Monitoring of Devices On Local Access Networks |
| 65. | Filed | MER-052P | 62/098,300 | | 12/30/2014 | Controlling An Output Resource Shared Openly Over A Wireless Network for Playing Media |
| 66. | Filed | MER-054P | 62/098,317 | | 12/30/2014 | Dynamically Resizing Aggregation Windows Based On Network Congestion From Mixed Types of Traffic In A Wireless Network |
| 67. | Filed | MER-064P | 62/098,329 | | 12/30/2014 | Automatic Generation Of Logical Maps For Access Point Layouts |
| 68. | Filed | MER-071P | 62/099,126 | | 12/31/2014 | Self-Provisioning in Wi-Fi Networking With SDN (Software Defined Networking) Controllers Using Predictive Traffic Loads In A Wireless Communication Network |
| 69. | Filed | MER-067 | 14/693,878 | | 4/23/2015 | Optimizing Wifi Flows in Network Using SDN |
| 70. | Filed | MER-073 | 14/696,345 | | 4/25/2015 | Extending Bonjour Service across the enterprise using SDN |

**Schedule B to the
IP Security Interest Release**

TRADEMARKS

| Mark | Application No. and Date filed | Registration No. |
|--------------------------------------|-----------------------------------|------------------|
| WIRELESS LIKE WIRE | 77/815,177 08-28-09 | 4339012 |
| WIRELESS WELLNESS | 77/793,829 7/30/09 | 4328571 |
| ALL WIRELESS ENTERPRISE | 77/965,284 3/22/10 | 4339054 |
| POWERING THE ALL WIRELESS ENTERPRISE | 77/965,265 3/22/10 | 4339053 |
| MERU NETWORKS | 78578259 | 3063250 |
| MERU | 77236579 | 3785191 |
| AIRTIME FAIRNESS | 77511585 | 3948169 |
| AIR TRAFFIC CONTROL | 77236641 | 3948090 |
| E(Z)RF | 77236653 | 4125671 |
| MFLEX | 85755116 | |

**Schedule C to the
IP Security Interest Release**

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None.

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SCHEDULE C TO THE INTELLECTUAL PROPERTY AGREEMENT

RECORDED: 07/08/2015

**TRADEMARK
REEL: 005572 FRAME: 0477**