

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM562614

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Contribution Agreement
SEQUENCE:	2

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
ARRIS SOLUTIONS, INC.		06/30/2018	Corporation: DELAWARE

RECEIVING PARTY DATA

Name:	ARRIS TECHNOLOGY, INC.
Street Address:	101 TOURNAMENT DRIVE
City:	HORSHAM
State/Country:	PENNSYLVANIA
Postal Code:	19044
Entity Type:	Corporation: DELAWARE

PROPERTY NUMBERS Total: 15

Property Type	Number	Word Mark
Registration Number:	3262223	BEAMFLEX
Registration Number:	4863441	CHANNELFLY
Registration Number:	4422692	
Serial Number:	86914147	OPENG
Registration Number:	4408483	RUCKUS
Registration Number:	4408484	RUCKUS
Registration Number:	4408482	RUCKUS
Registration Number:	3280730	RUCKUS WIRELESS
Registration Number:	4343496	SMARTCELL
Registration Number:	4868035	XCLAIM
Registration Number:	4868033	XCLAIM
Registration Number:	4868034	XCLAIM
Registration Number:	4868032	XCLAIM
Registration Number:	5061882	XPRESSCONNECT
Registration Number:	4478547	ZONEFLEX

CORRESPONDENCE DATA

Fax Number: 215-323-13

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent***TRADEMARK**

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 215-323-1797
Email: colleen.obrien@commscope.com
Correspondent Name: Larry Cullen, Esquire
Address Line 1: 101 Tournament Drive
Address Line 2: Legal Dept
Address Line 4: Horsham, PENNSYLVANIA 19044

NAME OF SUBMITTER:	Larry Cullen, Esquire
SIGNATURE:	/LARRY CULLEN/
DATE SIGNED:	02/18/2020

Total Attachments: 23

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CONTRIBUTION AGREEMENT

THIS CONTRIBUTION AGREEMENT (this "Agreement") is made and entered on June 30, 2018, by and among ARRIS Solutions, Inc., a Delaware corporation ("ARRIS Solutions"), and ARRIS Technology, Inc., a Delaware corporation ("ARRIS Technology"). ARRIS Solutions and ARRIS Technology are sometimes individually referred to herein as a "Party" and collectively as the "Parties."

WHEREAS, the Parties are wholly owned subsidiaries (whether direct or indirect) of Ruckus Wireless, Inc., a Delaware corporation ("Ruckus");

WHEREAS, Ruckus has approved the implementation of a restructuring of certain intellectual property assets involving certain of its direct and indirect subsidiaries (including the Parties) (collectively, the "IP Restructuring");

WHEREAS, (a) ARRIS Solutions is a wholly owned subsidiary of Ruckus, (b) ARRIS Technology is a wholly owned subsidiary of ARRIS Solutions, and (c) ARRIS Enterprises LLC is a wholly owned subsidiary of ARRIS Technology;

WHEREAS, subject to the terms and conditions of this Agreement, ARRIS Solutions desires to contribute to ARRIS Technology the intellectual property assets [including (without limitation) patents (and any continuations, divisionals, continuations-in-part, reissues, reexaminations, utility models, foreign counterparts thereof, and any patent or patent application having a priority claim based on or in common with any of the foregoing), designs, design rights, utility models, copyrights (including programs and software), database rights, trade or service marks, trade secrets, trade names, and know-how whether or not registered, or any similar rights in brands, applications for any of the foregoing, any registrations attaching to such rights and any rights or forms of protection of a similar nature and having equivalent effect to any of them in addition to the assets, set forth in Schedule I hereto] (the "IP Assets").

NOW, THEREFORE, in consideration of the premises and the mutual promises and agreements contained herein, the adequacy and sufficiency of which are hereby acknowledged, the Parties hereto, intending to be legally bound, hereby agree as follows:

Section 1. Contribution.

1.1 Contribution of IP Assets. Effective as of April 1, 2018, ARRIS Solutions hereby contributes, assigns and transfers to ARRIS Technology, and ARRIS Technology hereby accepts, all of the IP Assets, free and clear of all liens, claims, encumbrances and restrictions of any kind whatsoever other than the Permitted Liens (the "Second IP Contribution").

1.2 Permitted Liens. As used herein, ["Permitted Liens" means liens and security interests securing that certain Credit Agreement, dated as of March 27, 2013, as amended and restated as of June 18, 2015 and further amended from time to time, among Ruckus, as successor by merger to ARRIS Group, Inc., ARRIS Enterprises, LLC, ARRIS International and certain other subsidiaries of ARRIS International, as Borrowers, and Bank of

America, N.A., as Administrative Agent.

1.3 Capital Contribution. The Second IP Contribution is a capital contribution and no equity interests of ARRIS Technology are being issued in connection therewith.

1.4 Tax Treatment. The Parties hereby acknowledge that the Second IP Contribution is intended to qualify as a transfer and exchange pursuant to, and governed by, Section 351 of the Internal Revenue Code of 1986, as amended.

Section 2. Representations and Warranties. Each Party hereby represents and warrants that:

2.1 It is duly organized, validly existing and in good standing under the laws of its jurisdiction of organization and has all requisite corporate power and authority to carry on its business as it is now being conducted.

2.2 It has the right, power and capacity to execute and deliver this Agreement and any other certificate, agreement, document or other instrument to be executed and delivered in connection with the transactions contemplated by this Agreement (the "Ancillary Documents") and to perform its obligations under this Agreement and the Ancillary Documents and to consummate the transactions contemplated hereby and thereby.

2.3 This Agreement has been duly executed and delivered by such Party and constitutes the valid and binding agreement of such Party, enforceable against such Party in accordance with its terms, subject to applicable bankruptcy, insolvency and other similar laws affecting the enforceability of creditors' rights generally, general equitable principles and the discretion of courts in granting equitable remedies.

Section 3. Miscellaneous.

3.1 Unenforceability of Term. Any term, condition or other provision of this Agreement that is prohibited or unenforceable in any jurisdiction will be ineffective, as to such jurisdiction, to the extent of such prohibition or unenforceability without affecting the validity or enforceability of such term, condition or provision in any other jurisdiction and without invalidating the remaining terms, conditions and other provisions of this Agreement.

3.2 Further Assurances. Each Party agrees to take such additional action, if any, and to execute such additional documents, if any, as shall be reasonably necessary to effect the transactions contemplated by this Agreement.


3.3 Governing Law. This Agreement and the transactions contemplated hereunder shall be construed under, and governed by, the laws of the State of Delaware.

3.4 Successors and Assigns. This Agreement shall be binding upon, and inure to the benefit of, the successors and assigns of the Parties hereto.


3.5 Counterparts. This Agreement may be executed in any number of counterparts with the same effect as if all Parties had signed the same document. All counterparts shall be construed together and shall constitute one instrument.

IN WITNESS WHEREOF, the Parties hereto have executed and delivered this Agreement as of the date first above written.

ARRIS SOLUTIONS, INC.

By: 
Name: Clayton B. Sharp
Title: Assistant Secretary

ARRIS TECHNOLOGY, INC.

By: 
Name: Gaines P. Carter
Title: Assistant Secretary

Schedule I

IP Assets

[Trademarks/Patents to be provided]

Application Serial Number	App Title	Patent Number	Issue Date	Expiration Date	Status	Status Date	Country	Technology Category
12/72,855	Vertical Multiple-Input Multiple-Output Wireless Antennas				Allowed	10/7/2016	US	Antenna Designs
13/396,482	Radio Frequency Emission Pattern Shaping				Allowed	12/16/2016	US	Antenna Designs
14/275,887	Adjustment of Radiation Patterns Utilizing a Position Sensor				Filed	2/11/2015	US	Antenna Designs
12/980,253	Antenna With Selectable Elements For Use In Wireless Communications				Filed	1/23/2015	US	Antenna Designs
14/792,052	Antennas With Polarization Diversity				Filed	10/29/2015	US	Antenna Designs
15/050,233	Pattern Shaping of RF Emission Patterns				Filed	2/22/2016	US	Antenna Designs
15/237,547	Mountable Antenna Elements For Dual Band Antenna				Filed	12/1/2016	US	Antenna Designs
13/396,484	Radio Frequency Antenna Array With Spacing Element				Filed	1/21/2015	US	Antenna Designs
14/217,392	Low Band Reflector For Dual Band Directional Antenna				Filed	4/29/2015	US	Antenna Designs
15/405,275	Antenna with Enhanced Azimuth Gain				Filed	1/12/2017	US	Antenna Designs
11/413,670	Pin Diode Network for Multiband RF Coupling	7,639,106	12/29/2009	7/10/2026	Granted	12/29/2009	US	Antenna Designs
12/404,127	Adjustment of Radiation Patterns Utilizing a Position Sensor	8,217,843	7/10/2012	11/16/2030	Granted	7/10/2012	US	Antenna Designs
13/485,012	Adjustment of Radiation Patterns Utilizing a Position Sensor	8,723,741	5/13/2014	3/13/2029	Granted	5/13/2014	US	Antenna Designs
11/010,076	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	7,292,198	11/6/2007	12/9/2024	Granted	11/6/2007	US	Antenna Designs
11/414,117	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	7,652,632	1/26/2010	3/1/2026	Granted	1/26/2010	US	Antenna Designs
11/799,458	Reducing Stray Capacitance In Antenna Element Switching	7,696,946	4/13/2010	3/7/2025	Granted	4/13/2010	US	Antenna Designs
11/877,465	Antenna With Selectable Elements For Use In Wireless Communications	9,019,165	4/28/2015	10/13/2026	Granted	4/28/2015	US	Antenna Designs
11/041,145	SYSTEM AND METHOD FOR A MINIMIZED ANTENNA APPARATUS WITH SELECTABLE ELEMENTS	7,362,280	4/22/2008	5/7/2025	Granted	4/22/2008	US	Antenna Designs
11/646,136	ANTENNAS WITH POLARIZATION DIVERSITY	7,498,996	3/3/2009	2/19/2025	Granted	3/3/2009	US	Antenna Designs
12/396,439	Antennas With Polarization Diversity	7,880,683	2/1/2011	7/10/2025	Granted	2/1/2011	US	Antenna Designs
12/604,832	Dual Polarization Antenna Array With Increased Wireless Coverage	7,965,252	6/21/2011	2/5/2025	Granted	6/21/2011	US	Antenna Designs
12/605,256	Dual Band Dual Polarization Antenna Array	8,031,129	10/4/2011	1/21/2025	Granted	10/4/2011	US	Antenna Designs

Application Serial Number	Applicable	Patent Number	Issue Date	Expiration Date	Status	Status Date	Country	Technology Category
11/924,082	Minimized Antenna Apparatus With Selectable Elements	7,511,680	3/31/2009	1/21/2025	Granted	3/31/2009	US	Antenna Designs
13/019,214	Antennas With Polarization Diversity	9,077,071	7/7/2015	5/26/2026	Granted	7/7/2015	US	Antenna Designs
13/240,687	Dual Band Dual Polarization Antenna Array	8,314,749	11/20/2012	1/21/2025	Granted	11/20/2012	US	Antenna Designs
13/681,421	Dual Band Dual Polarization Antenna Array	8,860,629	10/14/2014	1/21/2025	Granted	10/14/2014	US	Antenna Designs
11/265,751	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements	7,498,999	3/3/2009	2/15/2026	Granted	3/3/2009	US	Antenna Designs
12/851,472	Antenna Array	7,864,119	1/4/2011	12/23/2024	Granted	1/4/2011	US	Antenna Designs
13/862,834	Antenna Array	9,379,456	6/28/2016	2/3/2030	Granted	6/28/2016	US	Antenna Designs
11/938,240	Multiple-Input Multiple-Output Wireless Antennas	7,646,343	1/12/2010	10/7/2026	Granted	1/12/2010	US	Antenna Designs
12/018,894	Horizontal Multiple-Input Multiple-Output Wireless Antennas	7,575,474	3/9/2010	10/14/2026	Granted	3/9/2010	US	Antenna Designs
12/082,090	Coverage Antenna Apparatus With Selectable Horizontal And Vertical Polarization Elements	8,068,068	11/29/2011	2/7/2028	Granted	11/29/2011	US	Antenna Designs
13/280,278	Coverage Antenna Apparatus With Selectable Horizontal And Vertical Polarization Elements	8,704,720	4/22/2014	4/28/2026	Granted	4/22/2014	US	Antenna Designs
13/653,405	Coverage Antenna Apparatus With Selectable Horizontal And Vertical Polarization Elements	8,836,606	9/16/2014	6/1/2026	Granted	9/16/2014	US	Antenna Designs
14/487,593	Coverage Antenna Apparatus With Selectable Horizontal And Vertical Polarization Elements	9,093,758	7/28/2015	4/28/2026	Granted	7/28/2015	US	Antenna Designs
11/971,210	Pattern Shaping of RF Emission Patterns	7,893,882	2/22/2011	7/19/2029	Granted	2/22/2011	US	Antenna Designs
12/933,324	Pattern Shaping of RF Emission Patterns	8,085,206	12/27/2011	1/8/2028	Granted	12/27/2011	US	Antenna Designs
13/305,609	Pattern Shaping of RF Emission Patterns	8,358,248	1/22/2013	1/8/2028	Granted	1/22/2013	US	Antenna Designs
13/731,273	Pattern Shaping of RF Emission Patterns	8,686,905	4/1/2014	1/8/2028	Granted	4/1/2014	US	Antenna Designs
14/242,689	Pattern Shaping of RF Emission Patterns	9,270,029	2/23/2016	5/22/2028	Granted	2/23/2016	US	Antenna Designs
12/545,758	Mountable Antenna Elements For Dual Band Antenna	8,698,675	4/15/2014	4/2/2031	Granted	4/15/2014	US	Antenna Designs
14/252,857	Mountable Antenna Elements For Dual Band Antenna	9,419,344	8/16/2016	2/26/2030	Granted	8/16/2016	US	Antenna Designs
12/887,448	Antenna With Dual Polarization And Mountable Antenna Elements	9,407,012	8/2/2016	4/29/2031	Granted	8/2/2016	US	Antenna Designs

Application Serial Number	App Title	Patent Number	Issue Date	Expiration Date	Status	Status Date	Country	Technology Category
13/607,612	Multiband Monopole Antenna Apparatus With Ground Plane Aperture	9,570,799	2/14/2017	7/3/2033	Granted	1/25/2017	US	Antenna Designs
12/545,796	Transmission And Reception Parameter Control	9,153,876	10/6/2015	8/9/2025	Granted	10/6/2015	US	Antenna Designs
14/637,381	System And Method For Providing A Certificate For Network Access				Filed	3/3/2015	US	Cloudpath
14/824,328	System And Method For Providing A certificate By Way Of A Browser Extension				Filed	8/12/2015	US	Cloudpath
14/882,323	System And Method For Managing Network Access With A Certificate Having Soft Expiration				Filed	10/13/2015	US	Cloudpath
14/882,372	System And Method For Managing Certificate Based Secure Network Access With A Certificate Having A Buffer Period Prior To Expiration				Filed	10/13/2015	US	Cloudpath
13/454,600	System And Method For Providing A Certificate To A User Request	9,032,499	5/12/2015		Granted	5/12/2015	US	Cloudpath
13/454,653	System And Method For Providing A Certificate To A Third Party Request	9,003,507	4/7/2015		Granted	4/7/2015	US	Cloudpath
13/454,691	System And Method For Providing A Certificate Based On Granted Permissions	9,137,234	9/15/2015		Granted	9/15/2015	US	Cloudpath
13/454,737	System And Method For Providing A Certificate Based On List Membership	9,137,235	9/15/2015		Granted	9/15/2015	US	Cloudpath
13/662,224	System And Method For Providing a Certificate For Network Access	8,843,741	9/23/2014		Granted	9/23/2014	US	Cloudpath
13/874,063	System And Method For Managing Network Access Based On A History Of A Certificate	9,037,849	5/19/2015		Granted	5/19/2015	US	Cloudpath
14/456,074	Wireless Services Gateway				Allowed	10/26/2016	US	Gateway & Mobile Core Integration
12/250,947	Femto-cell Architecture In Support Of Voice And Data Communications	8,116,264	2/14/2012	7/24/2030	Granted	2/14/2012	US	Gateway & Mobile Core Integration
13/371,331	Femto-cell Architecture In Support Of Voice And Data Communications	8,576,781	11/5/2013	10/14/2028	Granted	11/5/2013	US	Gateway & Mobile Core Integration
14/043,760	Wireless Architecture In Support Of Voice And Data Communications	8,855,058	10/7/2014	10/14/2028	Granted	10/7/2014	US	Gateway & Mobile Core Integration
11/234,072	Maintaining Consistent Network Connections While Moving Through Wireless Networks	8,238,326	8/7/2012	5/22/2030	Granted	8/7/2012	US	Gateway & Mobile Core Integration

Application Serial Number	App Title	Patent Number	Issue Date	Expiration Date	Status	Status Date	Country	Technology Category
10/176,198	Method And System For Transparently And Security Interconnecting A WLAN Radio Access Network Into A GPRS/GSM Core Network	7,155,526	12/26/2006	6/15/2024	Granted	12/26/2006	US	Gateway & Mobile Core Integration
10/818,850	Mobile Cellular Network Selection From Wireless Lan	7,650,428	1/19/2010	9/26/2024	Granted	1/19/2010	US	Gateway & Mobile Core Integration
11/714,707	Increased Wireless Coverage Patterns	7,525,486	4/28/2009	12/23/2024	Granted	4/28/2009	US	Hardware Designs
95/001,078	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements	7,193,562	2/21/2012	12/23/2024	Granted	2/15/2012	US	Hardware Designs
15/403,117	Inhibiting Location Tracking Using Probe-Request Addresses				Filed	1/10/2017	US	Location Based Services
13/505,656	A Method And Apparatus For Determining Location Information Of A Position In A Multi-storey Building	8,385,943	2/6/2013		Granted	2/6/2013	US	Location Based Services
13/441,744	Computer Network Service Providing System Including Self Adjusting Volume Enforcement Functionality				Filed	4/3/2015	US	LTE/Cellular/ WiFi Integration
15/371,797	Cross Access Login Controller				Filed	12/8/2016	US	LTE/Cellular/ WiFi Integration
62/316,382	Reliable Communication in Shared-License Access Bands				Filed	3/31/2016	US	LTE/Cellular/ WiFi Integration
62/306,014	Concatenated Authentication and Authorization to Multiple Networks				Filed	3/9/2016	US	LTE/Cellular/ WiFi Integration
13/897,052	Cross Access Login Controller	9,055,073	6/9/2015	8/3/2033	Granted	6/9/2015	US	LTE/Cellular/ WiFi Integration
14/733,333	Cross Access Login Controller	9,548,983	1/17/2017		Granted	1/17/2016	US	LTE/Cellular/ WiFi Integration
14/503,133	Discovery of Cloud-Based Access-Point Controllers				Filed	9/30/2014	US	Management, Reporting, Analytics, Services Management
14/502,926	Avoiding Electronic Device Identification Errors				Filed	9/30/2014	US	Management, Reporting, Analytics, Services Management
14/986,508	Discovery and Security in LWA Communication				Filed	12/31/2015	US	Management, Reporting, Analytics, Services Management
15/532,847	Mac Based Mapping In IP Based Communications				Filed	2/14/2017	US	Management, Reporting, Analytics, Services Management
15/432,860	Modified Federation Architecture with Reduced Update Time				Filed	2/14/2017	US	Management, Reporting, Analytics, Services Management
62/436,997	Gathering Diagnostic Information for End-User Devices Having Network Connectivity Problems				Filed	12/20/2016	US	Management, Reporting, Analytics, Services Management
10201700756P	Anomaly Detection Based on Performance Indicators				Filed	1/31/2017	US	Management, Reporting, Analytics, Services Management
29/233,156	Wireless Local Area Network Device	D532,001	11/14/2006	11/14/2020	Granted	11/14/2006	US	Mechanical Design
29/292,091	Wireless Access Point	D596,628	7/21/2009	7/21/2023	Granted	7/21/2009	US	Mechanical Design
29/292,117	Wireless Access Point Cover	D595,705	7/7/2009	7/7/2023	Granted	7/7/2009	US	Mechanical Design

Application Serial Number	Appointee	Patent Number	Issue Date	Expiration Date	Status	Status Date	Country	Technology Category
29/292,464	Wireless Access Point Cover Base	D596,168	7/14/2009	7/14/2023	Granted	7/14/2009	US	Mechanical Design
29/307,082	Wireless Access Point	D596,635	7/21/2009	7/21/2023	Granted	7/21/2009	US	Mechanical Design
29/555,313	Wireless-Communication Dongle				Filed	2/19/2016	US	Mechanical design (form factor, attachments, etc)
29/533,643	Access Point Design				Allowed	12/13/2016	US	Mechanical Designs
13/461,679	Remote Cable Access Point Reset				Filed	2/4/2015	US	Other
14/814,681	Modeling Radio Frequency Coverage				Filed	7/31/2015	US	Other
15/153,522	Automated Access Point Provisioning				Filed	5/12/2016	US	Other
15/388,290	Provisioning Radios Associated With Access Points For Testing A Wireless Network				Filed	12/22/2016	US	Other
14/975,180	Multimedia Service Mirroring			12/18/2035	Filed	12/18/2015	US	Other
11/607,619	On-Demand Services By Wireless Base Station Virtualization	8,009,644	8/30/2011	9/17/2028	Granted	8/30/2011	US	Other
13/191,383	On-Demand Services By Wireless Base Station Virtualization	8,605,697	12/10/2013	9/7/2027	Granted	12/10/2013	US	Other
14/078,877	On-Demand Services By Wireless Base Station Virtualization	8,923,265	12/30/2014	12/1/2026	Granted	12/30/2014	US	Other
14/586,396	On-Demand Services By Wireless Base Station Virtualization	9,313,798	4/12/2016	11/13/2033	Granted	5/15/2015	US	Other
14/286,854	Out-of-Band Acknowledgment of Wireless Communication	9,497,717	11/12/2016		Granted	11/15/2016	US	Other
14/748,141	Distributed Access Point for IP Based Communications				Allowed	1/20/2017	US	RF Adaptive Algorithms
15/050,317	Wireless Network Throughput Enhancement Through Channel Aware Scheduling				Allowed	8/25/2016	US	RF Adaptive Algorithms
14/588,006	Mesh Network with Personal Pre-Shared Keys				Allowed	1/25/2017	US	RF Adaptive Algorithms
14/979,018	Increasing Reliable Data Throughput in a Wireless Network				Filed	12/22/2015	US	RF Adaptive Algorithms
14/177,634	Closed-Loop Automatic Channel Selection				Filed	4/17/2015	US	RF Adaptive Algorithms
12/947,800	Establishing A Mesh Network With Wired And Wireless Links				Filed	3/19/2015	US	RF Adaptive Algorithms
12/947,803	Determining Role Assignment In A Hybrid Mesh Network				Filed	3/12/2015	US	RF Adaptive Algorithms
14/855,079	Improving Distribution Of Clients Across A Network				Filed	9/15/2015	US	RF Adaptive Algorithms
14/855,107	Localizing A Multicast Service				Filed	9/15/2015	US	RF Adaptive Algorithms
15/338,246	Transmission And Reception Parameter Control				Filed	10/28/2016	US	RF Adaptive Algorithms
14/748,153	Performance Mapping			6/23/2035	Filed	6/23/2015	US	RF Adaptive Algorithms
15/403,087	Remedial Action Based on Monitored Wireless Throughput				Filed	1/10/2017	US	RF Adaptive Algorithms

Application Serial Number	App Title	Patent Number	Issue Date	Expiration Date	Status	Status Date	Country	Technology Category
14/278,419	Collision Protection Based on Packet Error Rate				Filed	5/14/2014	US	RF Adaptive Algorithms
15/403,100	Beamforming for a Multi-User MIMO Group				Filed	1/10/2017	US	RF Adaptive Algorithms
14/870,496	Remedial Action Based on Inter-Packet Receive Power				Filed	3/31/2016	US	RF Adaptive Algorithms
62/316,444	Rapidly Disseminated Operational Information for WLAN Management				Filed	3/31/2016	US	RF adaptive algorithms
15/432,868	Dynamic Selection of a Receive Antenna Pattern				Filed	2/14/2017	US	RF Adaptive Algorithms
12/008,715	Determining Associations in a Mesh Network	8,355,343	1/15/2013	12/19/2028	Granted	1/15/2013	US	RF Adaptive Algorithms
13/736,017	Determining Associations in a Mesh Network	8,780,760	7/15/2014	1/11/2028	Granted	7/15/2014	US	RF Adaptive Algorithms
12/719,006	Distributed Access Point for IP Based Communications	8,089,949	1/3/2012	1/21/2026	Granted	1/3/2012	US	RF Adaptive Algorithms
13/298,927	Distributed Access Point for IP Based Communications	8,634,402	1/21/2014	5/17/2026	Granted	1/21/2014	US	RF Adaptive Algorithms
14/160,402	Distributed Access Point for IP Based Communications	9,066,152	6/23/2015	9/20/2025	Granted	6/25/2015	US	RF Adaptive Algorithms
11/180,329	System And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	7,899,497	3/1/2011	12/2/2028	Granted	3/1/2011	US	RF Adaptive Algorithms
12/283,223	Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	7,877,113	1/25/2011	7/12/2025	Granted	1/25/2011	US	RF Adaptive Algorithms
13/037,250	System And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	8,150,470	4/3/2012	7/12/2025	Granted	4/3/2012	US	RF Adaptive Algorithms
11/232,196	Systems And Methods For Improved Data Throughput In Communications Networks	7,505,447	3/17/2009	11/28/2025	Granted	3/17/2009	US	RF Adaptive Algorithms
12/718,987	Mac Based Mapping In IP Based Communications	8,638,708	1/28/2014	5/4/2027	Granted	1/28/2014	US	RF Adaptive Algorithms
14/080,488	Mac Based Mapping In IP Based Communications	9,071,942	6/30/2015	9/20/2025	Granted	6/30/2015	US	RF Adaptive Algorithms
11/985,865	Communications Throughput with Unicast Packet Transmission Alternative	8,125,975	2/28/2012	2/5/2028	Granted	2/28/2012	US	RF Adaptive Algorithms
11/985,866	Communications Throughput with Multiple Physical Data Rate Transmission Determinations	7,787,436	8/31/2010	12/28/2025	Granted	8/31/2010	US	RF Adaptive Algorithms

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11/267,477	Throughput Enhancement By Acknowledgment Suppression	9,240,858	1/19/2016	3/24/2028	Granted	1/19/2016	US	RF Adaptive Algorithms
13/548,798	Throughput Enhancement By Acknowledgment Suppression	8,824,357	9/2/2014	6/14/2026	Granted	9/2/2014	US	RF Adaptive Algorithms
11/413,293	Coverage Enhancement Using Dynamic Antennas	8,792,414	7/29/2014	5/30/2033	Granted	7/29/2014	US	RF Adaptive Algorithms
12/562,061	Coverage Enhancement Using Dynamic Antennas And Virtual Access Points	9,344,161	5/17/2016	4/28/2026	Granted	5/17/2016	US	RF Adaptive Algorithms
11/841,619	Closed-Loop Automatic Channel Selection	8,670,725	3/11/2014	9/14/2030	Granted	3/11/2014	US	RF Adaptive Algorithms
12/181,274	Wireless Network Throughput Enhancement Through Channel Aware Scheduling	8,547,899	10/1/2013	7/31/2031	Granted	10/1/2013	US	RF Adaptive Algorithms
14/028,323	Wireless Network Throughput Enhancement Through Channel Aware Scheduling	9,271,327	2/23/2016	7/28/2028	Granted	2/23/2016	US	RF Adaptive Algorithms
12/938,316	Unicast To Multicast Conversion	8,619,662	12/31/2013	4/28/2026	Granted	12/31/2013	US	RF Adaptive Algorithms
14/106,514	Unicast To Multicast Conversion	9,019,886	4/28/2015	9/20/2025	Granted	4/28/2015	US	RF Adaptive Algorithms
11/474,057	Transmission And Reception Parameter Control	7,933,628	4/26/2011	11/18/2028	Granted	4/26/2011	US	RF Adaptive Algorithms
12/575,422	Transmission And Reception Parameter Control	8,594,734	11/26/2013	8/23/2026	Granted	11/26/2013	US	RF Adaptive Algorithms
13/282,157	Transmission And Reception Parameter Control	8,583,183	11/12/2013	9/19/2025	Granted	11/12/2013	US	RF Adaptive Algorithms
13/340,425	Transmission And Reception Parameter Control	9,484,638	11/1/2016	7/12/2025	Granted	10/12/2016	US	RF Adaptive Algorithms
14/981,579	Dynamic Psk For Hotspots				Allowed	12/27/2016	US	Security and Authentication
14/751,833	Sharing Security Keys with Headless Devices				Filed	6/25/2015	US	Security and Authentication
14/692,485	Key Assignment For A Brand				Filed	3/23/2015	US	Security and Authentication
15/089,247	Secure Network Access Using Credentials				Filed	4/1/2016	US	Security and Authentication
14/747,930	Group Isolation in Wireless Networks			6/23/2035	Filed	6/23/2015	US	Security and Authentication
62/316,475	Key Management for Fast Transitions				Filed	3/31/2016	US	Security and Authentication
62/438,413	Cloud Authentication of Layer 2-Connected Member Deices via an IP-Connected Active Device				Filed	12/22/2016	US	Security and Authentication
11/788,371	Dynamic Authentication In Secured Wireless Networks	7,788,703	8/31/2010	9/12/2028	Granted	8/31/2010	US	Security and Authentication
11/789,446	Provisioned Configuration For Automatic Wireless Connection	9,071,583	6/30/2015	5/16/2028	Granted	6/30/2015	US	Security and Authentication
12/339,688	Dynamic Authentication In Secured Wireless Networks	7,669,232	2/23/2010	4/18/2027	Granted	2/23/2010	US	Security and Authentication

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12/845,089	Dynamic Authentication In Secured Wireless Networks	8,272,036	9/18/2012	4/18/2027	Granted	9/18/2012	US	Security and Authentication
13/590,997	Dynamic Authentication In Secured Wireless Networks	8,607,315	12/10/2013	4/18/2027	Granted	12/10/2013	US	Security and Authentication
14/078,947	Dynamic Authentication In Secured Wireless Networks	9,131,378	9/8/2015	4/18/2027	Granted	9/8/2015	US	Security and Authentication
13/370,201	Dynamic Psk For Hotspots	8,756,668	6/17/2014	2/9/2032	Granted	6/17/2014	US	Security and Authentication
14/794,012	Dynamic Psk For Hotspots	9,226,146	12/29/2015	2/9/2032	Granted	12/29/2015	US	Security and Authentication
13/439,844	Key Assignment For A Brand	9,092,610	7/28/2015	4/4/2032	Granted	7/28/2015	US	Security and Authentication
12/679,613	Authentication, Authorization And Accounting Services Solution	8,528,052	9/3/2013	6/6/2031	Granted	9/3/2013	US	Security and Authentication

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5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	AT	Antenna Designs
5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	BE	Antenna Designs
5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	CH	Antenna Designs
201510921058.4	Adjustment of Radiation Patterns Utilizing a Position Sensor				Filed	7/6/2016	CN	Antenna Designs
201310130004.7	System And Method For A Minimized Antenna Apparatus With Selectable Elements				Filed	4/3/2015	CN	Antenna Designs
201480015806.6	Low Band Reflector For Dual Band Directional Antenna				Filed	3/17/2014	CN	Antenna Designs
200780023325.X	Pin Diode Network For Multiband RF Coupling	ZL 200780023325.X	2/12/2014	4/12/2027	Granted	2/12/2014	CN	Antenna Designs
200780020943.9	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	ZL 200780020943.9	11/20/2013	4/12/2027	Granted	11/20/2013	CN	Antenna Designs
201210930398.6	Multiband Omnidirectional Planar Antenna Apparatus With Selectable Elements	ZL201210930398.6	7/13/2016	4/12/2027	Granted	7/13/2016	CN	Antenna Designs
200680048001.7	Antennas With Polarization Diversity	ZL200680048001.7	5/22/2013	12/26/2026	Granted	5/22/2013	CN	Antenna Designs
201180050872.3	Antenna With Dual Polarization And Mountable Antenna Elements	ZL201180050872.3	4/20/2016	9/21/2031	Granted	4/20/2016	CN	Antenna Designs
09014989.9	ADJUSTMENT OF RADIATION PATTERNS UTILIZING A POSITION SENSOR	602009037900.3	4/20/2016	12/3/2029	Granted	4/20/2016	DE	Antenna Designs
5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	DE	Antenna Designs
602006044519.9	Antennas With Polarization Diversity	1954209	2/18/2015	12/26/2026	Granted	2/18/2015	DE	Antenna Designs
11827493.5	Antenna With Dual Polarization And Mountable Antenna Elements				Filed	5/11/2015	EP	Antenna Designs
13534691.1	Multiband Monopole Antenna Apparatus With Ground Plane Aperture				Filed	4/28/2015	EP	Antenna Designs
14764406.6	Low Band Reflector For Dual Band Directional Antenna				Filed	4/8/2016	EP	Antenna Designs
9014989.9	Adjustment of Radiation Patterns Utilizing a Position Sensor	2228868	4/20/2016	12/3/2029	Granted	10/21/2015	EP	Antenna Designs
5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	7/14/2014	EP	Antenna Designs
6848122.5	Antennas With Polarization Diversity	1954209	2/18/2015	7/29/2025	Granted	2/18/2015	EP	Antenna Designs
5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	FI	Antenna Designs
5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	FR	Antenna Designs
5776913.5	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	GB	Antenna Designs
13108046.2	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements				Filed	11/17/2013	HK	Antenna Designs
16107900.6	Low Band Reflector For Dual Band Directional Antenna				Filed	7/6/2016	HK	Antenna Designs
1323/MAUMIP/2008	Low Band Reflector For Dual Band Directional Antenna				Filed	7/6/2016	HK	Antenna Designs
5776913.5	Antennas With Polarization Diversity	268895	6/13/2015	12/26/2026	Granted	6/13/2015	IN	Antenna Designs
10-2015-7008927	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1782499	9/4/2013	7/29/2025	Granted	9/4/2013	IT	Antenna Designs
PCT/US07/09276	Multiband Monopole Antenna Apparatus With Ground Plane Aperture				Filed	4/23/2015	KR	Antenna Designs
PCT/US05/27023	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements				Nationalized	4/12/2007	PCT	Antenna Designs
PCT/US07/09276	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements				Nationalized	14-Jul-14	PCT	Antenna Designs
PCT/US2006/049211	System And Method For A Minimized Antenna Apparatus With Selectable Elements				Nationalized	12/23/2014	PCT	Antenna Designs
					Nationalized	9/19/2008	PCT	Antenna Designs

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PCT/US11/52661	Antenna With Dual Polarization And Mountable Antenna Elements				Nationalized	4/2/2013	PCT	Antenna Designs
PCT/US13/58713	Multiband Monopole Antenna Apparatus With Ground Plane Aperture				Nationalized	9/9/2013	PCT	Antenna Designs
PCT/US14/30911	Low Band Reflector For Dual Band Circirectional Antenna	145162	9/1/2014	4/23/2027	Nationalized	9/18/2014	PCT	Antenna Designs
96114271.0	Pin Diode Network For Multiband RF Coupling	1384686	2/1/2013	8/16/2025	Granted	9/1/2014	TW	Antenna Designs
94127953.0	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements				Granted	2/1/2013	TW	Antenna Designs
96114265.0	System And Method For An Omnidirectional Planar Antenna Apparatus With Selectable Elements	1372467	9/11/2012	4/22/2027	Granted	9/11/2012	TW	Antenna Designs
94141018.0	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements	1426653	2/11/2014	11/22/2025	Granted	2/11/2014	TW	Antenna Designs
PCT/US15/67512	Virtual-Machine Dataplane Having Fixed Inpacket Time				Filed	12/22/2015	PCT	Controller Functionality
PCT/US16/49520	Virtual-Machine Dataplane With DHCP-Server Functionality				Filed	6/30/2016	PCT	Gateway & Mobile Core Integration
US13/27701	Wireless Services Gateway				Nationalized	2/25/2013	PCT	Gateway & Mobile Core Integration
200580001608.0	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements	ZL200580001608.5	7/18/2012	7/29/2025	Granted	7/18/2012	CN	Hardware Designs
5776697.4	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements				Filed	7/23/2014	EP	Hardware Designs
7104748.6	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements	1097354	4/26/2013	7/29/2025	Granted	4/26/2013	HK	Hardware Designs
PCT/US05/27169	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements				Nationalized	2008	PCT	Hardware Designs
94127962.0	Circuit Board Having A Peripheral Antenna Apparatus With Selectable Antenna Elements	1360919	3/21/2012	8/15/2025	Granted	3/21/2012	TW	Hardware Designs
201180076211.8	A Method And Apparatus For Determining Location Information Of A Position In A Multi-storey Building				Filed		CN	Location Based Services
11 875 431.6	A Method And Apparatus For Determining Location Information Of A Position In A Multi-storey Building				Filed		EP	Location Based Services
PCT/US14/47317	Inhibiting Location Tracking Using Probe-Request Addresses				Filed	7/18/2014	PCT	Location Based Services
PCT/US13/00206	Title: A Method And Apparatus For Recording Information From A Plurality Of Mobile Devices In An Area				Filed		PCT	Location Based Services
PCT/US14/70015	Calibration-Free Location Determination Using Wireless Communication				Filed	12/12/2014	PCT	Location Based Services
PCT/SG2011/000397	A Method And Apparatus For Determining Location Information Of A Position In A Multi-storey Building				Nationalized		PCT	Location Based Services
201202386-7	A Method And Apparatus For Determining Location Information Of A Position In A Multi-storey Building	188618	6/28/2013		Granted		SG	Location Based Services
103117600	Title: A Method And Apparatus For Recording Information From A Plurality Of Mobile Devices In An Area				Filed		TW	Location Based Services
201180064820.1	Cross Access Login Controller				Filed	6/2/2015	CN	Location Based Services
201080055564.5	Computer Network Service Providing System Including Self Adjusting Volume Enforcement Functionality	ZL 201080055564.5	8/24/2015		Granted	8/24/2015	CN	LTE/Cellular/ WiFi Integration
10821674.8	Computer Network Service Providing System Including Self Adjusting Volume Enforcement Functionality				Filed	4/27/2012	EP	LTE/Cellular/ WiFi Integration
11842127.0	Cross Access Login Controller				Filed	5/23/2013	EP	LTE/Cellular/ WiFi Integration
15822231.5	Small-Cell Coverage Shaping				Filed	1/30/2017	EP	LTE/Cellular/ WiFi Integration
15822771.0	Small-Cell Coverage Shaping				Filed	2/30/2017	EP	LTE/Cellular/ WiFi Integration
13101948.6	Computer Network Service Providing System Including Self Adjusting Volume Enforcement Functionality				Filed	2/15/2013	HK	LTE/Cellular/ WiFi Integration
2012-532716	Computer Network Service Providing System Including Self Adjusting Volume Enforcement Functionality	5734299	4/24/2015	10/7/2030	Granted	4/24/2015	JP	LTE/Cellular/ WiFi Integration
2013-539400	Cross Access Login Controller	5982389	8/5/2016		Granted	8/5/2016	JP	LTE/Cellular/ WiFi Integration

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PCT/US15/40646	Small-Cell Coverage Shaping				Filed	7/15/2015	PCT	LTE/Cellular/ WiFi Integration
PCT/US15/68181	Neutral-Host-Network Venue-Specific Application Provisioning				Filed	12/30/2015	PCT	LTE/Cellular/ WiFi Integration
PCT/US15/40648	Schedule Aggregation and Antenna-Radiation-Pattern Optimization				Filed	7/15/2015	PCT	LTE/Cellular/ WiFi Integration
PCT/US15/68268	Operator Formed Network Consortiums				Filed	12/31/2015	PCT	LTE/Cellular/ WiFi Integration
PCT/US15/68184	Determining a Sounding Interval Based on Throughput				Filed	12/30/2015	PCT	LTE/Cellular/ WiFi Integration
PCT/US15/60937	Establishing LWA-WLAN Communication				Filed	11/16/2015	PCT	LTE/Cellular/ WiFi Integration
PCT/US15/68186	Synchronizing Indoor Radio Nodes				Filed	12/30/2015	PCT	LTE/Cellular/ WiFi Integration
PCT/US16/482176	Network Support for Locally Offloaded Traffic				Filed	8/29/2016	PCT	LTE/Cellular/ WiFi Integration
PCT/IL10/000816	Computer Network Service Providing System Including Self Adjusting Volume Enforcement Functionality				Nationalized	10/7/2010	PCT	LTE/Cellular/ WiFi Integration
IL11/050019	Cross Access Login Controller				Nationalized	11/17/2011	PCT	LTE/Cellular/ WiFi Integration
PCT/US15/052404	Discovery of Cloud-Based Access-Point Controllers				Filed	9/25/2015	PCT	Services Management, Reporting, Analytics, Mechanical Design
200830210510.7	Wireless Access Point	ZL200830210510.7	2/10/2010	9/27/2018	Granted	2/10/2010	CN	Mechanical Design
000882725-0001	Wireless Access Point	882725	2/20/2008	2/20/2033	Granted	2/20/2008	European Community	Mechanical Design
000882725-0002	Wireless Access Point	882725	2/20/2008	2/20/2033	Granted	2/20/2008	European Community	Mechanical Design
001009500-0001	Wireless Access Point	1009500	10/6/2008	9/26/2033	Granted	10/6/2008	European Community	Mechanical Design
001009500-0002	Wireless Access Point	1009500	10/6/2008	9/26/2033	Granted	10/6/2008	European Community	Mechanical Design
94304938.0	Wireless Local Area Network Device	D113194	10/1/2006	8/15/2017	Granted	10/1/2006	TW	Mechanical Design
97305853.0	Wireless Access Point	D136568	8/21/2010	7/21/2023	Granted	8/21/2010	TW	Mechanical Design
98305230.0	Wireless Access Point	D138208	12/11/2010	7/21/2023	Granted	12/11/2010	TW	Mechanical Design
PCT/US14/69722	Low-Profile Clip for Reduced Electrical Noise				Filed	12/11/2014	PCT	Mechanical Designs
201280021332.7	Remote Cable Access Point Reset				Filed	12/15/2014	CN	Other
Not yet available	Automated Access Point Provisioning				Filed	7/8/2016	CN	Other
6838743.3	On-Demand Services By Wireless Base Station Virtualization	1958369	4/8/2015	12/1/2026	Granted	4/8/2015	DE	Other
12779857.7	Remote Cable Access Point Reset		7/6/2016	5/1/2032	Granted	7/6/2016	DE	Other
14165071.5	On-Demand Services By Wireless Base Station Virtualization				Filed	1/26/2015	EP	Other
14861732.7	Automated Access Point Provisioning				Filed	6/8/2016	EP	Other
6838743.3	On-Demand Services By Wireless Base Station Virtualization	1958369	4/8/2015		Granted	4/8/2015	EP	Other
12779857.7	Remote Cable Access Point Reset				Granted	12/8/2015	EP	Other
12779857.7	Remote Cable Access Point Reset		7/6/2016	5/1/2032	Granted	7/6/2016	GB	Other
2014-509357	Remote Cable Access Point Reset		1/6/2017	5/1/2032	Granted	1/24/2017	JP	Other
PI 2013003985	Remote Cable Access Point Reset				Filed	5/8/2015	MY	Other
PCT/US14/65188	Automated Access Point Provisioning				Filed	11/12/2014	PCT	Other
PCT/US15/30573	Out-of-Band Acknowledgment of Wireless Communication				Filed	5/13/2015	PCT	Other
PCT/US14/72974	WLAN Testing Using an RF Abstraction Layer				Filed	12/31/2014	PCT	Other
PCT/US15/68347	Selective WLAN Processing Based on Preamble Information				Filed	12/31/2015	PCT	Other
PCT/US2006/045893	On-Demand Services By Wireless Base Station Virtualization				Nationalized	12/1/2006	PCT	Other
PCT/US12/36028	Remote Cable Access Point Reset				Nationalized	5/1/2012	PCT	Other
US14/14289	Modeling Radio Frequency Coverage				Nationalized	1/31/2014	PCT	Other
PCT/US14/72363	Provisioning Radios Associated With Access Points For Testing A Wireless Network			12/25/2016	Nationalized	12/22/2016	PCT	Other
103103766	Tool For Planning And Visualizing RF Coverage				Filed	2/5/2014	TW	Other
103133244	Automated Access Point Provisioning				Filed	11/12/2014	TW	Other

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103145285	Provisioning Radios Associated With Access Points For Testing A Wireless Network			Filed	12/24/2014	TW	Other
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	2/11/2009	BE	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	2/11/2009	CH	RF Adaptive Algorithms
201480028582.2	Improving Distribution of Clients Across a Network		3/14/2034	Filed	11/16/2015	CN	RF Adaptive Algorithms
201480028042.4	Localizing a Multicast Service		11/18/2028	Filed	11/13/2015	CN	RF Adaptive Algorithms
200580001531.1	System And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	9/5/2012	7/29/2025	Granted	9/5/2012	CN	RF Adaptive Algorithms
200580001629.7	Systems and Methods for Improved Data Throughput in Communications Networks	6/24/2015	11/4/2025	Granted	6/24/2015	CN	RF Adaptive Algorithms
201080002467.X	Establishing A Mesh Network With Wired And Wireless Links	9/23/2015	11/16/2030	Granted	9/23/2015	CN	RF Adaptive Algorithms
5776630.5	System And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	5/8/2015	7/29/2025	Granted	4/7/2015	DE	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	2/11/2009	DE	RF Adaptive Algorithms
8021224.4	Improved Communications Throughput With Multiple Physical Data Rate Transmission Determinations	8/24/2011	11/4/2025	Granted	2/27/2014	DE	RF Adaptive Algorithms
10011798.5	Mac Based Mapping In Ip Based Communications	3/28/2012	11/4/2025	Granted	3/28/2012	DE	RF Adaptive Algorithms
10813061.8	Establishing A Mesh Network With Wired And Wireless Links	8/26/2015	11/16/2030	Granted	8/26/2015	DE	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	2/11/2009	DK	RF Adaptive Algorithms
14763690.7	Improving Distribution of Clients Across a Network		3/14/2034	Filed	10/8/2015	EP	RF Adaptive Algorithms
14763341.6	Localizing a Multicast Service			Filed	10/8/2015	EP	RF Adaptive Algorithms
14887958.5	Beamforming for a Multi-User MIMO Group			Filed	2/13/2017	EP	RF Adaptive Algorithms
5776630.5	System And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	6/3/2015	7/29/2025	Granted	6/3/2015	EP	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	11-Feb-09	EP	RF Adaptive Algorithms
8021224.4	Improved Communications Throughput With Multiple Physical Data Rate Transmission Determinations	8/24/2011	11/4/2025	Granted	8/24/2011	EP	RF Adaptive Algorithms
10011798.5	Mac Based Mapping In Ip Based Communications	3/28/2012	11/4/2025	Granted	2/27/2014	EP	RF Adaptive Algorithms
10813061.8	Establishing A Mesh Network With Wired And Wireless Links	8/26/2015	11/16/2030	Granted	8/26/2015	EP	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	2/11/2009	FI	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	2/11/2009	FR	RF Adaptive Algorithms
8021224.4	Improved Communications Throughput With Multiple Physical Data Rate Transmission Determinations	8/24/2011	11/4/2025	Granted	2/27/2014	FR	RF Adaptive Algorithms
10011798.5	Mac Based Mapping In Ip Based Communications	3/28/2012	11/4/2025	Granted	3/28/2012	FR	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	2/11/2009	11/4/2025	Granted	2/11/2009	GB	RF Adaptive Algorithms
8021224.4	Improved Communications Throughput With Multiple Physical Data Rate Transmission Determinations	8/24/2011	11/4/2025	Granted	2/27/2014	GB	RF Adaptive Algorithms
10011798.5	Mac Based Mapping In Ip Based Communications	3/28/2012	11/4/2025	Granted	3/28/2012	GB	RF Adaptive Algorithms
10813061.8	Establishing A Mesh Network With Wired And Wireless Links	8/26/2015	11/16/2030	Granted	8/26/2015	GB	RF Adaptive Algorithms
7104489.5	Device And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	5/24/2013	7/29/2025	Granted	5/24/2013	HK	RF Adaptive Algorithms
7104205.6	Systems and Methods for Improved Data Throughput in Communications Networks	10/23/2009	11/4/2025	Granted	10/23/2009	HK	RF Adaptive Algorithms
11106973.5	Mac Based Mapping In Ip Based Communications	9/7/2012	11/4/2025	Granted	9/7/2012	HK	RF Adaptive Algorithms

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Application Number	App Title	Patent Number	Issue Date	Expiration Date	Status	Status Date	Country	Technology Category
10102094.9	Improved Communications Throughput With Multiple Physical Data Rate Transmission Determinations	1136140	5/18/2012	11/4/2025	Granted	5/18/2012	HK	RF Adaptive Algorithms
13105010.0	Establishing A Mesh Network With Wired And Wireless Links	HK1178342	9/30/2016	11/16/2030	Granted	12/19/2016	HK	RF Adaptive Algorithms
W-00 2011 00594	Establishing A Mesh Network With Wired And Wireless Links				Filed	11/18/2013	ID	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	1759543	2/11/2009	11/4/2025	Granted	2/11/2009	IE	RF Adaptive Algorithms
793/CHENP/2011	Establishing A Mesh Network With Wired And Wireless Links				Filed	10/31/2013	IN	RF Adaptive Algorithms
10-2015-7029123	Improving Distribution of Clients Across a Network				Filed	10/13/2015	KR	RF Adaptive Algorithms
P12011000668	Establishing A Mesh Network With Wired And Wireless Links		3/14/2034		Filed	11/19/2014	MY	RF Adaptive Algorithms
PCT/US14/28730	Improving Distribution Of Clients Across A Network				Filed	3/14/2014	PCT	RF Adaptive Algorithms
PCT/US14/29293	Localizing A Multicast Service				Filed	3/14/2014	PCT	RF Adaptive Algorithms
PCT/US14/47316	Remedial Action Based on Monitored Wireless Throughput				Filed	7/18/2014	PCT	RF Adaptive Algorithms
PCT/US15/52701	Remedial Action Based on Inter-Packet Received Power				Filed	9/28/2015	PCT	RF Adaptive Algorithms
PCT/US14/58272	Heuristic Method of Forming a WiFi Mesh Network				Filed	9/30/2014	PCT	RF Adaptive Algorithms
PCT/US16/23528	Rapidly Disseminated Operational Information for WLAN Management				Filed	4/1/2016	PCT	RF adaptive algorithms
PCT/US16/48279	Efficient Search Through an Antenna-Pattern Group				Filed	8/29/2016	PCT	RF adaptive algorithms
PCT/US08/14148	Determining Associations in a Mesh Network				Nationalized	11/5/2014	PCT	RF Adaptive Algorithms
PCT/US11/59019	Unicast to Multicast Conversion				Nationalized	5/2/2013	PCT	RF Adaptive Algorithms
PCT/US05/26933	System And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements				Nationalized	7/27/2011	PCT	RF Adaptive Algorithms
PCT/US05/39760	Systems and Methods for Improved Data Throughput in Communications Networks				Nationalized	11/6/2007	PCT	RF Adaptive Algorithms
PCT/US06/26418	Coverage Enhancement Using Dynamic Antennas				Nationalized	11/5/2014	PCT	RF Adaptive Algorithms
PCT/US10/56908	Establishing A Mesh Network With Wired And Wireless Links				Nationalized	4/19/2012	PCT	RF Adaptive Algorithms
PCT/US14/47392	Beamforming for a Multi-User MIMO Group				Nationalized	7/21/2014	PCT	RF Adaptive Algorithms
1-2011-500365	Establishing A Mesh Network With Wired And Wireless Links				Filed	5/12/2015	PH	RF Adaptive Algorithms
05816101.4-2412	Systems and Methods for Improved Data Throughput in Communications Networks	1759543	2/11/2009	11/4/2025	Granted	2/11/2009	SE	RF Adaptive Algorithms
103109936	Improving Distribution Of Clients Across A Network				Filed	3/17/2014	TW	RF Adaptive Algorithms
103109932	Localizing A Multicast Service				Filed	3/17/2014	TW	RF Adaptive Algorithms
94127959.0	System And Method For Transmission Parameter Control For An Antenna Apparatus With Selectable Elements	1951790	11/1/2011	8/15/2025	Granted	11/1/2011	TW	RF Adaptive Algorithms
94138837.0	Systems and Methods for Improved Data Throughput in Communications Networks	1440370	6/1/2014	11/4/2025	Granted	6/1/2014	TW	RF Adaptive Algorithms
103106911.0	Improving Throughput in a Communications Network	1542228	7/11/2016	11/4/2025	Granted	7/11/2016	TW	RF Adaptive Algorithms
94138866.0	Throughput Enhancement By Acknowledgment Suppression	1991018	3/21/2013	11/4/2025	Granted	3/21/2013	TW	RF Adaptive Algorithms
95125286.0	Coverage Enhancement Using Dynamic Antennas	1442790	6/21/2014	7/11/2026	Granted	6/21/2014	TW	RF Adaptive Algorithms
201310291285.4	Dynamic Authentication In Secured Wireless Networks				Filed	5/21/2014	CN	Security and Authentication
201380064804.6	Secure Network Access Using Credentials				Filed	5/26/2016	CN	Security and Authentication
200780019074.8	Provisioned Configuration For Automatic Wireless Connection	ZL 200780019074.8	7/25/2012	4/23/2027	Granted	7/25/2012	CN	Security and Authentication
200780019389.2	Dynamic Authentication In Secured Wireless Networks	ZL 200780019389.2	8/14/2013	4/18/2027	Granted	8/14/2013	CN	Security and Authentication
7755678.5	Dynamic Authentication In Secured Wireless Networks	60 2007 047 273.3	8/3/2016	4/18/2027	Granted	8/3/2016	DE	Security and Authentication
7755678.5	Dynamic Authentication In Secured Wireless Networks	602007047273.3	8/3/2015	4/18/2027	Granted	11/9/2016	DE	Security and Authentication
7755913.6	Provisioned Configuration For Automatic Wireless Connection				Filed	4/13/2015	EP	Security and Authentication
14850219.8	Secure Network Access Using Credentials				Filed	4/28/2016	EP	Security and Authentication
7755678.5	Dynamic Authentication In Secured Wireless Networks	2013758	8/3/2016	4/18/2027	Granted	11/9/2016	EP	Security and Authentication

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Application Number	Title	Patent Number	Issue Date	Expiration Date	Status	Series Date	Country	Technology Category
7755678.5	Dynamic Authentication In Secured Wireless Networks	EP2013758 B1	8/3/2016	4/18/2027	Granted	8/3/2016	GB	Security and Authentication
7755678.5	Dynamic Authentication In Secured Wireless Networks	2013758	8/3/2016	4/18/2027	Granted	11/9/2016	GB	Security and Authentication
PCT/US14/58409	Securing Network Access Using Credentials				Filed	9/30/2014	PCT	Security and Authentication
PCT/US16/25064	Virtual Device with Internet Protocol Security Tunnel				Filed	3/30/2016	PCT	Security and Authentication
PCT/US17/23340	Zero-Touch Onboarding in a Mesh Network				Filed	3/30/2015	PCT	Security and Authentication
PCT/US16/25541	Key Management for Fast Transitions				Filed	4/1/2016	PCT	Security and Authentication
PCT/US07/09836	Dynamic Authentication In Secured Wireless Networks				Nationalized	4/24/2008	PCT	Security and Authentication
PCT/US07/09503	Dynamic Authentication In Secured Wireless Networks				Nationalized	4/24/2008	PCT	Security and Authentication
PCT/US2013/025051	Dynamic Psk For Hotspots				Nationalized		PCT	Security and Authentication
PCT/US13/34897	Key Assignment For A Brand				Nationalized	8/28/2014	PCT	Security and Authentication
IL08/001279	Authentication, Authorization And Accounting Services Solution				Nationalized	9/24/2008	PCT	Security and Authentication
102112203.0	Key Assignment For A Brand				Allowed	1/3/2017	TW	Security and Authentication
102105472.0	Dynamic Psk For Hotspots				Filed	11/14/2013	TW	Security and Authentication
103133867	Securing Network Access Using Credentials				Filed	9/30/2014	TW	Security and Authentication

Trademark	Jurisdiction	App No	App Date	Reg No	Reg Date	Record Owner	Status
BEAMFLEX	USA	78541004	03 Jan 2005	3262223	10 Jul 2007	Ruckus Wireless, Inc.	Registered
CHANNELFLY	USA	85540807	13 Feb 2012	4863441	01 Dec 2015	Ruckus Wireless, Inc.	Registered
Design Only (3 Bars)	USA	85629423	18 May 2012	4422692	22 Oct 2013	Ruckus Wireless, Inc.	Registered
OPENG	USA	86914147	19 Feb 2016			Ruckus Wireless, Inc.	Pending
RUCKUS	USA	85751017	10 Oct 2012	4408483	24 Sep 2013	Ruckus Wireless, Inc.	Registered
RUCKUS	USA	85751019	10 Oct 2012	4408484	24 Sep 2013	Ruckus Wireless, Inc.	Registered
RUCKUS	USA	85751016	10 Oct 2012	4408482	24 Sep 2013	Ruckus Wireless, Inc.	Registered
RUCKUS WIRELESS	USA	78716261	20 Sep 2005	3280730	14 Aug 2007	Ruckus Wireless, Inc.	Registered
SMARTCELL	USA	85540816	13 Feb 2012	4343496	28 May 2013	Ruckus Wireless, Inc.	Registered
XCLAIM	USA	86403676	23 Sep 2014	4868035	08 Dec 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	USA	86403672	23 Sep 2014	4868033	08 Dec 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	USA	86403674	23 Sep 2014	4868034	08 Dec 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	USA	86403664	23 Sep 2014	4868032	08 Dec 2015	Ruckus Wireless, Inc.	Registered
XPRESSCONNECT	USA	86587859	06 Apr 2015	5061882	18 Oct 2016	Ruckus Wireless, Inc.	Registered
ZONEFLEX	USA	85540810	13 Feb 2012	4478547	04 Feb 2014	Ruckus Wireless, Inc.	Registered

Trademark	Jurisdiction	App No	App Date	Reg No	Reg Date	Record Owner	Status
BEAMFLEX	China	860656	02 Jul 2005	860656	02 Jul 2005	Ruckus Wireless, Inc.	Registered
BEAMFLEX	France	860656	02 Jul 2005	860656	02 Jul 2005	Ruckus Wireless, Inc.	Registered
BEAMFLEX	Italy	860656	02 Jul 2005	860656	02 Jul 2005	Ruckus Wireless, Inc.	Registered
BEAMFLEX	Japan	860656	02 Jul 2005	860656	02 Jul 2005	Ruckus Wireless, Inc.	Registered
BEAMFLEX	Korea (South)	860656	02 Jul 2005	860656	02 Jul 2005	Ruckus Wireless, Inc.	Registered
BEAMFLEX	Taiwan	094040250	22 Aug 2005	01211273	01 Jun 2006	Ruckus Wireless, Inc.	Registered
BEAMFLEX	Turkey	860656	02 Jul 2005	860656	02 Jul 2005	Ruckus Wireless, Inc.	Registered
BEAMFLEX	WIPO	860656	02 Jul 2005	860656	02 Jul 2005	Ruckus Wireless, Inc.	Registered
OPENG	Australia	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Registered
OPENG	Canada	1796686	19 Aug 2016	not		Ruckus Wireless, Inc.	Pending
OPENG	China	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	--
OPENG	EU-CTM	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Pending
OPENG	India	1320382	19 Aug 2016			Ruckus Wireless, Inc.	Pending
OPENG	Israel	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	--
OPENG	Japan	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Registered
OPENG	Korea (South)	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	IR Provisional Refusal
OPENG	Mexico	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	--
OPENG	New Zealand	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Registered
OPENG	Philippines	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Pending
OPENG	Russian	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Registered
OPENG	Singapore	1320382	19 Aug 2016			Ruckus Wireless, Inc.	Pending
OPENG	United	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Registered
OPENG	WIPO	1320382	19 Aug 2016	1320382	19 Aug 2016	Ruckus Wireless, Inc.	Registered
RUCKUS	Australia	1550538	09 Apr 2013	1550538	10 Jan 2017	Ruckus Wireless, Inc.	Registered
RUCKUS	China	18616208	16 Dec 2015			Ruckus Wireless, Inc.	Pending
RUCKUS	China	12399714	10 Apr 2013			Ruckus Wireless, Inc.	Pending
RUCKUS	China	12399715	10 Apr 2013	12399715	21 Sep 2014	Ruckus Wireless, Inc.	Registered
RUCKUS	China	12399713	10 Apr 2013	12399713	21 Sep 2014	Ruckus Wireless, Inc.	Registered
RUCKUS	EU-CTM	011722196	09 Apr 2013	01172219	30 Oct 2013	Ruckus Wireless, Inc.	Registered
RUCKUS	Hong Kong	302571868	09 Apr 2013	30257186	27 Feb 2015	Ruckus Wireless, Inc.	Registered
RUCKUS	India	2510227	09 Apr 2013			Ruckus Wireless, Inc.	Pending
RUCKUS	India	2510228	09 Apr 2013	1418688	21 Dec 2016	Ruckus Wireless, Inc.	Registered
RUCKUS	India	2510229	09 Apr 2013			Ruckus Wireless, Inc.	Pending
RUCKUS	Israel	254775	09 Apr 2013	254775	01 Jan 2015	Ruckus Wireless, Inc.	Registered
RUCKUS	Taiwan	106008734	17 Feb 2017			Ruckus Wireless, Inc.	Pending
RUCKUS ICN	China	12750279	14 Jun 2013	12750279	14 Oct 2016	Ruckus Wireless, Inc.	Registered
RUCKUS ICN	China	12750278	14 Jun 2013	12750278	28 Oct 2014	Ruckus Wireless, Inc.	Registered

Trademark	Jurisdiction	App No	App Date	Reg No	Reg Date	Record Owner	Status
RUCKUS (CN)	China	12750277	14 Jun 2013	12750277	28 Oct 2014	Ruckus Wireless, Inc.	Registered
RUCKUS	China	12750276	14 Jun 2013			Ruckus Wireless, Inc.	Pending
RUCKUS	China	18616207	16 Dec 2015			Ruckus Wireless, Inc.	Pending
Xclaim	Australia	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Australia	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Australia	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Australia	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	China	1262974	23 Mar 2015			Ruckus Wireless, Inc.	Pending
Xclaim	China	1259944	23 Mar 2015			Ruckus Wireless, Inc.	Pending
XCLAIM	China	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	China	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	EU-CTM	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	EU-CTM	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	EU-CTM	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	EU-CTM	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	EU-CTM	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	India	1259944	23 Mar 2015			Ruckus Wireless, Inc.	Pending
XCLAIM	India	1262974	23 Mar 2015			Ruckus Wireless, Inc.	Pending
XCLAIM	India	1262973	23 Mar 2015			Ruckus Wireless, Inc.	Pending
Xclaim	India	1259943	23 Mar 2015			Ruckus Wireless, Inc.	Pending
Xclaim	Israel	1259944	23 Mar 2015			Ruckus Wireless, Inc.	Pending
XCLAIM	Israel	1262974	23 Mar 2015			Ruckus Wireless, Inc.	Pending
Xclaim	Israel	1259943	23 Mar 2015			Ruckus Wireless, Inc.	Pending
XCLAIM	Israel	1262973	23 Mar 2015			Ruckus Wireless, Inc.	Pending
Xclaim	Japan	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Japan	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Japan	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Japan	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Korea (South)	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Korea (South)	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Korea (South)	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Korea (South)	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Mexico	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Mexico	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Mexico	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Mexico	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	New Zealand	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered

Trademark	Jurisdiction	App No	App Date	Reg No	Reg Date	Record Owner	Status
Xclaim	New Zealand	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	New Zealand	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	New Zealand	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Philippines	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Philippines	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Philippines	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	Philippines	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Russian	1262974	23 Mar 2015			Ruckus Wireless, Inc.	Pending
Xclaim	Russian	1259944	23 Mar 2015			Ruckus Wireless, Inc.	Pending
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XCLAIM	Russian	1262973	23 Mar 2015			Ruckus Wireless, Inc.	Pending
Xclaim	Singapore	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	Singapore	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
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Xclaim	Singapore	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	WIPO	1259944	23 Mar 2015	1259944	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	WIPO	1262974	23 Mar 2015	1262974	23 Mar 2015	Ruckus Wireless, Inc.	Registered
XCLAIM	WIPO	1262973	23 Mar 2015	1262973	23 Mar 2015	Ruckus Wireless, Inc.	Registered
Xclaim	WIPO	1259943	23 Mar 2015	1259943	23 Mar 2015	Ruckus Wireless, Inc.	Registered