PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4134114

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AIRDEFENSE, LLC	10/28/2016

RECEIVING PARTY DATA

Name:	EXTREME NETWORKS, INC.
Street Address:	145 RIO ROBLES
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 21

Property Type	Number
Patent Number:	7086089
Patent Number:	7042852
Patent Number:	7058796
Patent Number:	7277404
Patent Number:	7322044
Patent Number:	7532895
Patent Number:	7526808
Patent Number:	7779476
Patent Number:	8060939
Patent Number:	7359676
Patent Number:	7324804
Patent Number:	7522908
Patent Number:	7355996
Patent Number:	7577424
Patent Number:	7715800
Patent Number:	7971251
Patent Number:	7970013
Patent Number:	8281392
Patent Number:	7783300
Patent Number:	8205244

Property Type	Number
Patent Number:	7383577

CORRESPONDENCE DATA

Fax Number: (617)235-9492

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.

Phone: (617) 951-7000
Email: mdipalma@ropesgray.com
Correspondent Name: ROPES & GRAY LLP
Address Line 1: PRUDENTIAL TOWER 800 BOYLSTON STREET
Address Line 4: BOSTON, MASSACHUSETTS 02199-3600

ATTORNEY DOCKET NUMBER:	112636-0001-001
NAME OF SUBMITTER:	MARY JANE DIPALMA
SIGNATURE:	/ Mary Jane DiPalma /
DATE SIGNED:	11/08/2016

Total Attachments: 48
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PATENT ASSIGNMENT

This PATENT ASSIGNMENT (this "**Assignment**") is made and entered into as of October 28, 2016 (the "**Effective Date**"), by and among Symbol Technologies, LLC, a Delaware limited liability company, AirDefense, LLC, a Georgia limited liability company, and Wireless Valley Communications, LLC, a Delaware limited liability company (each, an "**Assignor**" and collectively the "**Assignors**"), and Extreme Networks, Inc., a Delaware corporation ("**Assignee**"). Each Assignor and Assignee are sometimes referred to herein individually as a "**Party**" and are collectively referred to herein as the "**Parties**."

RECITALS

A. Assignors are the owners of the patents and patent applications identified on **Exhibit A** (collectively, the "**Patents**"); and

B. Each Assignor is a wholly-owned direct or indirect subsidiary of Zebra Technologies Corporation, a Delaware corporation ("**Zebra**"), and Zebra and Assignee have entered into that certain Asset Purchase Agreement dated as of September 13, 2016, as amended, (the "**Purchase Agreement**") pursuant to which Zebra has agreed to sell, transfer and assign to Assignee and Assignee has agreed to purchase and assume from Zebra certain specified assets, including the Patents.

NOW, THEREFORE, in accordance with the Purchase Agreement and in consideration of the promises and of the mutual covenants and agreements contained herein and therein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Assignor and Assignee, intending to be legally bound, hereby agree as follows:

ASSIGNMENT

1. Definitions. Capitalized terms used but not defined in this Assignment shall have the meanings ascribed thereto in the Purchase Agreement.

2. Assignment. Each Assignor hereby sells, conveys, transfers, assigns and delivers to Assignee all of such Assignor's right, title and interest in, to and under, the Patents, not only in the United States and its territorial possessions, but in all countries foreign thereto, and including any continuation, continuation-in-part, divisional, extension, substitution, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including the right to claim priority in accordance with international treaties and conventions, the right to all income, royalties, damages and payments hereafter due or payable with respect to the Patents, the right to prosecute, maintain and defend the Patents before any public or private agency, office or registrar, and all claims, causes of action and rights to sue for past, present and future infringement or unconsented use of the Patents. The assignments contemplated herein are meant to be absolute assignments and not by way of security. Each Assignor hereby authorizes the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities, to record Assignee as

the assignee of all of such Assignor's right, title and interest in, to and under the Patents and to deliver to Assignee, and to Assignee's attorneys, agents, successors or assigns, all documents and communications.

3. Further Assurances. Each Assignor agrees to execute and deliver any and all affidavits, testimonies, declarations, oaths, samples, exhibits, specimens and other documentation, and otherwise agrees to assist Assignee, its successors and assigns as reasonably requested by Assignee, at Assignee's own expense, to effect the terms of this Assignment.

4. Terms of the Purchase Agreement. Each Assignor and Assignee acknowledges and agrees that the representations, warranties and agreements contained in the Purchase Agreement, and any limitations thereto, shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. In the event of any conflict between the terms of this Assignment and the terms of the Purchase Agreement, the terms of the Purchase Agreement shall control.

5. Successors and Assigns; No Third Party Beneficiaries. This Assignment shall be binding upon and inure to the benefit of the Parties and their respective successors and permitted assigns, except that neither this Assignment nor any of the rights, interests or obligations hereunder may be assigned or delegated by either Party without the prior written consent of the other Party (*provided*, that Assignee may assign, in its sole discretion, any or all of its rights, interests and obligations under this Assignment to one or more of its Affiliates; *provided however*, that no assignment shall relieve Assignee of any of its obligations hereunder). Nothing expressed or referred to in this Assignment will be construed to give any Person other than the Parties any legal or equitable right, remedy or claim under or with respect to this Assignment or any provision of this Assignment.

6. Governing Law. This Assignment, and all claims or causes of action (whether in contract or tort) that may be based upon, arise out of or relate to this Assignment or the negotiation, execution or performance of this Assignment shall be governed by and construed in accordance with the internal laws of the State of Delaware, without regard to conflicts of laws or the choice of law principles of any jurisdiction.

7. Amendment and Waiver. Any provision of this Assignment may be amended or waived only in a writing signed by each Assignor and Assignee. No waiver of any provision hereunder or any breach or default thereof shall extend to or affect in any way any other provision or prior or subsequent breach or default.

8. Headings; No Strict Construction. The section headings contained in this Assignment are inserted for convenience only and shall not affect in any way the meaning or interpretation of this Assignment. The language used in this Assignment will be deemed to be the language chosen by the Parties to express their mutual intent, and no rule of strict construction will be applied against any Person.

9. Severability. Whenever possible, each provision of this Assignment will be interpreted in such manner as to be effective and valid under applicable Law, but if any provision of this Assignment is held to be prohibited by or invalid under applicable Law, such provision will be

ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Assignment, and the Parties will negotiate in good faith to amend or otherwise modify this Assignment to replace any prohibited or invalid provision with an effective and valid provision that gives effect as closely as possible to the intent of the Parties to the maximum extent permitted by applicable Law.

10. Entire Agreement. This Assignment, together with the Purchase Agreement, constitute the entire agreement between the Parties with respect to the subject matter hereof and supersede any prior understandings, agreements, warranties or representations by or between the Parties, written or oral, which may have related in any way to the subject matter hereof. The express terms in this Assignment and the Purchase Agreement control and supersede any course of performance or usage of the trade inconsistent with any of the terms hereof and thereof.

11. Counterparts. This Assignment may be executed in several counterparts (including by means of telecopied signature pages or electronic transmission in portable document format (pdf)), each of which shall be deemed an original but all of which together will constitute one and the same instrument.

(Signature page follows)

IN WITNESS WHEREOF, the Parties have executed this Assignment as of the Effective Date.

ASSIGNORS:

SYMBOL TECHNOLOGIES, LLC

By: _____
Name: Michael Cho
Title: Senior Vice President of Corporate Development

AIRDEFENSE, INC.

By: _____
Name: Michael Cho
Title: Senior Vice President of Corporate Development

WIRELESS VALLEY COMMUNICATIONS, LLC

By: _____
Name: Michael Cho
Title: Senior Vice President of Corporate Development

ASSIGNEE:

EXTREME NETWORKS, INC.

By: _____
Name: Katy Motiey
Title: Executive Vice President, Chief Administrative Officer – Human Resources, Legal and Secretary

IN WITNESS WHEREOF, the Parties have executed this Assignment as of the Effective Date.

ASSIGNORS:

SYMBOL TECHNOLOGIES, LLC

By: _____
Name:
Title:

AIRDEFENSE, INC.

By: _____
Name:
Title:

WIRELESS VALLEY COMMUNICATIONS, LLC

By: _____
Name:
Title:

ASSIGNEE:

EXTREME NETWORKS, INC.

By: K. Motiey
Name: Katy Motiey
Title: Executive ~~Vice~~ President,
Chief Administrative Officer –
Human Resources, Legal and
Secretary

EXHIBIT A

Country	Application Type	Status	Application Title	Application No.	Filed Date	Patent No.	Grant Date	Owner of Record
United States of America	Priority	Granted	Dynamic Next Hop Routing Protocol Protocol	08/741208	1996-10-29	6421731	2002-07-16	Symbol Technologies, LLC
Germany (Federal Republic of)	Secondary	Granted	Infrastructure for Wireless Lans	69935287.8	1999-01-14	69935287.8	2007-02-28	Symbol Technologies, LLC
European Patent	Divisional	Published	Infrastructure for Wireless Lans	07004012.6	1999-01-14			Symbol Technologies, LLC
Finland	Designated PCT	Granted	Infrastructure for Wireless LANS	99902235.3	1999-01-14	0976211	2007-02-28	Symbol Technologies, LLC
France	Secondary	Granted	Infrastructure for Wireless LANS	99902235.3	1999-01-14	0976211	2007-02-28	Symbol Technologies, LLC
United Kingdom	Secondary	Granted	Infrastructure for Wireless LANS	99902235.3	1999-01-14	0976211	2007-02-28	Symbol Technologies, LLC
Japan	Secondary	Granted	Infrastructure for Wireless Lans	11-537408	1999-01-14	4112020	2008-04-18	Symbol Technologies, LLC
Japan	Secondary	Granted	Alternative Infrastructure Model for Wireless Lans	2007-097656	1999-01-14	4339373	2009-07-10	Symbol Technologies, LLC
Sweden	Secondary	Granted	Infrastructure for Wireless LANS	99902235.3	1999-01-14	0976211	2007-02-28	Symbol Technologies, LLC
United States of America	Continuation	Granted	Infrastructure for Wireless Lans	10/784588	2004-02-23	7653033	2010-01-26	Symbol Technologies, LLC
United States of America	Continuation	Granted	Infrastructure for Wireless LANS	12/633302	2009-12-08	8687610	2014-04-01	Symbol Technologies, LLC
United States of America	Priority	Granted	Multiphase Receiver and Oscillator	09/034826	1998-03-04	6385442	2002-05-07	Symbol Technologies, LLC

United States of America	Priority	Granted	Multi-Communication Access Point	09/073045	1998-05-05	6259898	2001-07-10	Symbol Technologies, LLC
United States of America	Continuation	Granted	Multi-Communication Access Point	09/795527	2001-02-27	6393261	2002-05-21	Symbol Technologies, LLC
Australia	Secondary	Granted	Apparatus for Interfacing a Wireless Local Network and a Wired Voice Telecommunications System	1999064470	1999-12-13	768596	2004-04-01	Symbol Technologies, LLC
China	Secondary	Granted	Apparatus for Interfacing a Wireless Local Network and a Wired Voice Telecommunications System	99124744.2	1999-12-16	ZL99124744 .2	2008-05-14	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Apparatus for Interfacing a Wireless Local Network and a Wired Voice Telecommunications System	99125265.1	1999-12-17	69938447.8	2008-04-02	Symbol Technologies, LLC
France	Designated EP	Granted	Apparatus for Interfacing a Wireless Local Network and a Wired Voice Telecommunications Systems	99125265.1	1999-12-17	1011278	2008-04-02	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Apparatus for Interfacing a Wireless Local Network and a Wired Voice Telecommunication Systems	99125265.1	1999-12-17	1011278	2008-04-02	Symbol Technologies, LLC
United States of America	Priority	Granted	Apparatus for Interfacing a Wireless Local Network and a Wired Voice Telecommunications System	09/213958	1998-12-17	6600734	2003-07-29	Symbol Technologies, LLC
United States of America	Continuation	Granted	Appartus for Interfacing a Wireless Local Network and Wired Voice Telecommunication System	11/580266	2006-10-11	7693101	2010-04-06	Symbol Technologies, LLC
United States of America	Priority	Granted	System For Creating a Computer Model and Measurement Database of a Wireless Communication Network	09/221985	1998-12-29	6442507	2002-08-27	Wireless Valley Communications, LLC

United States of America	Continuation	Granted	System For Creating a Computer Model and Measurement Database of a Wireless Communication Network	10/127573	2002-04-23	6876951	2005-04-05	Wireless Valley Communications, LLC
United States of America	Continuation	Granted	System and Method for Measuring and Monitoring Wireless Network Performance in Campus and Indoor Environments	10/287026	2002-11-04	7096160	2006-08-22	Wireless Valley Communications, LLC
United States of America	Priority	Granted	Multi-Level Encryption Access Point for Wireless Network	09/257341	1999-02-25	6526506	2003-02-25	Symbol Technologies, LLC
United States of America	Priority	Granted	Multi-Level Encryption System for Wireless Network	09/257732	1999-02-25	6453159	2002-09-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Data Encryption Integrated Circuit for with On-Board Dual-Use Memory	09/264130	1999-03-05	6694430	2004-02-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System for Automated Optimization of Antenna Potisioning In 3-D	09/318840	1999-05-26	6317599	2001-11-13	Wireless Valley Communications, LLC
United States of America	Continuation	Granted	Method and System for Analysis, Design and Optimization of Communications Network	09/946589	2001-09-06	7035642	2006-04-25	Wireless Valley Communications, LLC
United States of America	Divisional	Granted	Method and System for Analysis, Design and Optimization of Communications Network	10/868928	2004-06-17	7155228	2006-12-26	Wireless Valley Communications, LLC
Australia	Designated PCT	Granted	Method and System for Site Specific Communication Network Design and Analysis	2000050045	2000-05-11	778186	2005-03-10	Wireless Valley Communications, LLC
Canada	Designated PCT	Application	Method and System for Managing a Real Time Bill of Materials	2373423	2000-05-11			Wireless Valley Communications, LLC
China	Designated PCT	Granted	Method for Managing a Real Time Bill of Materials	00808048.8	2000-05-11	ZL00808048.8	2009-09-16	Wireless Valley Communications, LLC
Mexico	Designated PCT	Granted	Method and System for Managing a Real Time Bill Of	PA/A/2001-012045	2000-05-11	226016	2005-02-02	Wireless Valley Communications, LLC

			Materials					
United States of America	Priority	Granted	Method and System for Managing a Real Time Bill Of Materials	09/318842	1999-05-26	6493679	2002-12-10	Wireless Valley Communications, LLC
United States of America	Continuation	Granted	Method and System for Generation a Real Time Bill of Materials and Evaluating Network Performance	10/266711	2002-10-09	7596518	2009-09-29	Wireless Valley Communications, LLC
United States of America	Priority	Granted	Method and System for Developing Input with a Building Database Manupulator	09/318841	1999-05-26	6850946	2005-02-01	Wireless Valley Communications, LLC
United States of America	Continuation-in-part	Granted	Method and System for Developing Input with a Building Database Manupulator	09/633120	2000-08-04	6721769	2004-04-13	Wireless Valley Communications, LLC
United States of America	Divisional	Granted	Method and System for Developing Input with a Building Database Manupulator	10/807388	2004-03-24	7711687	2010-05-04	Wireless Valley Communications, LLC
United States of America	Priority	Granted	System for the Three Dimensional Display of Wireless Communication System Performance	09/352678	1999-07-14	6499006	2002-12-24	Wireless Valley Communications, LLC
United States of America	Continuation	Granted	System For The Three Dimensional Display Of Wireless Communication System Performance	10/244409	2002-09-17	7299168	2007-11-20	Wireless Valley Communications, LLC
United States of America	Priority	Granted	802.11 Networks Using Dynamic Power Control for RF Transmission	09/483399	2000-01-14	7570929	2009-08-04	Symbol Technologies, LLC
United States of America	Priority	Granted	Multi-Tier Wireless Communications Architecture, Applications, and Methods	09/483167	2000-01-14	7492248	2009-02-17	Symbol Technologies, LLC
United States of America	Continuation-in-part	Granted	Multi-Tier Wireless Communications Architecture, Applications, and Methods	09/663774	2000-09-18	7126926	2006-10-24	Symbol Technologies, LLC

United States of America	Divisional	Granted	Multi-Tier Wireless Communications Architecture, Applications, and Methods	11/515313	2006-09-01	7339905	2008-03-04	Symbol Technologies, LLC
Australia	Secondary	Granted	Improved Wireless Local Area Networks	2001024889	2001-03-06	780976	2005-08-11	Symbol Technologies, LLC
Brazil	Secondary	Published	Improved Wireless Local Area Networks	PI0101188-0	2001-03-16			Symbol Technologies, LLC
China	Secondary	Granted	Improved Wireless Local Area Networks	01111745.1	2001-03-19	ZL01111745.1	2009-03-19	Symbol Technologies, LLC
European Patent	Divisional	Published	Improved Wireless Area Local Area Networks	10183231.9	2001-03-16			Symbol Technologies, LLC
European Patent	Divisional	Published	Improved Wireless Local Area Networks	08166878.2	2001-03-16			Symbol Technologies, LLC
Japan	Secondary	Granted	Improved Wireless Local Area Networks	2001-077770	2001-03-19	5160707	2012-12-21	Symbol Technologies, LLC
United States of America	Continuation-in-part	Granted	Multiple Wireless Local Area Networks Occupying Overlapping Physical Spaces	09/780741	2001-02-09	7173922	2007-02-06	Symbol Technologies, LLC
United States of America	Continuation-in-part	Granted	Security In Multiple Wireless Local Area Networks	10/037225	2001-10-25	7173923	2007-02-06	Symbol Technologies, LLC
United States of America	Continuation-in-part	Granted	Method and Apparatus for Roaming on a Wireless Network	10/883294	2004-07-01	7386298	2008-06-10	Symbol Technologies, LLC
United States of America	Continuation	Granted	Multiple Wireless Local Area Networks Occupying Overlapping Physical Spaces	11/147649	2005-06-08	8050240	2011-11-01	Symbol Technologies, LLC
United States of America	Continuation	Granted	A RF Port for Multiple Wireless Local Area Networks	11/622074	2007-01-11	8391256	2013-03-05	Symbol Technologies, LLC
United States of America	Continuation	Granted	A Cell Controller fro Multiple Wireless Local Area Networks	11/622159	2007-01-11	8699473	2014-04-15	Symbol Technologies, LLC
United States of America	Continuation	Granted	A System for Multiple Wireless Local Area Networks	11/622153	2007-01-11	8498278	2013-07-30	Symbol Technologies, LLC
United States of America	Continuation	Granted	System with a Cell Controller Adapted to Perform a Management Function	11/622161	2007-01-11	8699474	2014-04-15	Symbol Technologies, LLC

United States of America	Continuation	Granted	Wireless Local Area Networks	11/733839	2007-04-11	8027320	2011-09-27	Symbol Technologies, LLC
United States of America	Re-Exam	Granted	Multiple Wireless Local Area Networks Occupying Overlapping Physical Spaces	95/000350	2008-02-25	7173922 C1	2011-03-08	Symbol Technologies, LLC
United States of America	Re-Exam	Granted	Security In Multiple Wireless Local Area Networks	90/009101	2008-04-03	7173923 C1	2010-04-13	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Method and Apparatus for Variable Power Control in Wireless Communications Systems	01957141.3	2001-07-12			Symbol Technologies, LLC
Japan	Designated PCT	Granted	Method and Apparatus for Variable Power Control In Wireless Communications Systems	2002-508855	2001-07-12	5161411	2012-12-21	Symbol Technologies, LLC
United States of America	Secondary	Granted	Method and Apparatus for Variable Power Control In Wireless Communications Systems	09/823589	2001-03-30	6411608	2002-06-25	Symbol Technologies, LLC
Australia	Designated PCT	Granted	Voice and Data Wireless Communications Network and Method	2002045860	2001-07-27	781434	2005-09-08	Symbol Technologies, LLC
Australia	Divisional	Granted	Voice and Data Wireless Communications Network and Method	2008203424	2001-07-27	2008203424	2010-09-09	Symbol Technologies, LLC
Australia	Divisional	Granted	Voice and Data Wireless Communications Network and Method	2008203425	2001-07-27	2008203425	2009-09-17	Symbol Technologies, LLC
Brazil	Designated PCT	Granted	Voice and Data Wireless Communications Network and Method	PI0107091-6	2001-07-27	PI0107091-6	2016-07-26	Symbol Technologies, LLC
Brazil	Divisional	Application	Voice and Data Wireless Communications Network and Method	PI0117230-1	2005-11-18			Symbol Technologies, LLC
Brazil	Divisional	Application	Voice and Data Wireless Communications Network and Method	PI0117231-0	2005-11-18			Symbol Technologies, LLC

Brazil	Divisional	Application	Voice and Data Wireless Communications Network and Method	PI0117232-8	2005-11-18			Symbol Technologies, LLC
Canada	Designated PCT	Granted	Voice and Data Wireless Communications Network and Method	2389109	2001-07-27	2389109	2012-02-21	Symbol Technologies, LLC
Canada	Divisional	Granted	Voice and Data Wireless Communications Network and Method	2517825	2001-07-27	2517825	2009-12-01	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	01955073.0	2001-07-27	60117800.9	2006-03-08	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018174.2	2001-07-27	60146404.4	2012-04-11	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018176.7	2001-07-27	60148738.9	2014-04-23	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018175.9	2001-07-27	60146665.9	2012-06-06	Symbol Technologies, LLC
Finland	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	01955073.0	2001-07-27	1210830	2006-03-08	Symbol Technologies, LLC
France	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	01955073.0	2001-07-27	1210830	2006-03-08	Symbol Technologies, LLC
France	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018174.2	2001-07-27	1605634	2012-04-11	Symbol Technologies, LLC
France	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018176.7	2001-07-27	1605635	2014-04-23	Symbol Technologies, LLC
France	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018175.9	2001-07-27	1603279	2012-06-06	Symbol Technologies, LLC

United Kingdom	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	01955073.0	2001-07-27	1210830	2006-03-08	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018174.2	2001-07-27	1605634	2012-04-11	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018175.9	2001-07-27	1603279	2012-06-06	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	05018176.7	2001-07-27	1605635	2014-04-23	Symbol Technologies, LLC
Italy	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	01955073.0	2001-07-27	1210830	2006-03-08	Symbol Technologies, LLC
Japan	Designated PCT	Granted	Voice and Data Wireless Communications Network and Method	2002-515867	2001-07-27	4128445	2008-05-23	Symbol Technologies, LLC
Japan	Divisional	Granted	Voice and Data Wireless Communications Network and Method	2005320966	2001-07-27	4209418	2008-10-31	Symbol Technologies, LLC
Japan	Divisional	Granted	Voice and Data Wireless Communications Network and Method	2005320965	2005-11-04	4177842	2008-08-29	Symbol Technologies, LLC
Korea, Republic of (KR)	Designated PCT	Granted	Voice and Data Wireless Communications Network and Method	10-2002-7003594	2001-07-27	796846	2008-01-15	Symbol Technologies, LLC
Korea, Republic of (KR)	Divisional	Granted	Voice and Data Wireless Communications Network and Method	10-2005-7023389	2005-12-06	799392	2008-01-23	Symbol Technologies, LLC
Korea, Republic of (KR)	Divisional	Granted	Voice and Data Wireless Communications Network and Method	10-2005-7023391	2005-12-06	754859	2007-08-28	Symbol Technologies, LLC
Korea, Republic of (KR)	Divisional	Granted	Voice and Data Wireless Communications Network and Method	10-2005-7023390	2005-12-06	754350	2007-08-27	Symbol Technologies, LLC

Sweden	Designated EP	Granted	Voice and Data Wireless Communications Network and Method	01955073.0	2001-07-27	EP1210830	2006-03-08	Symbol Technologies, LLC
United States of America	Priority	Granted	Voice and Data Wireless Communications Network and Method	09/627092	2000-07-27	6404772	2002-06-11	Symbol Technologies, LLC
United States of America	Continuation	Granted	Voice and Data Wireless Communications Network and Method	10/033861	2001-12-27	8660061	2014-02-25	Symbol Technologies, LLC
United States of America	Continuation	Granted	Voice and Data Wireless Communications Network and Method	11/193521	2005-07-29	8149796	2012-04-03	Symbol Technologies, LLC
United States of America	Continuation	Granted	Voice and Data Wireless Communications Network and Method	11/192574	2005-07-29	8189542	2012-05-29	Symbol Technologies, LLC
Mexico	Designated PCT	Granted	System, Method, and Apparatus for Portable Design, Deployment, Test and Optimization of a Communication Network	PA/A/2003/000855	2001-07-27	239104	2006-08-01	Wireless Valley Communications, LLC
United States of America	Priority	Granted	System, Method and Apparatus for Portable Design, Deployment, Test and Optimization of a communication Network	09/628506	2000-07-28	6971063	2005-11-29	Wireless Valley Communications, LLC
Australia	Designated PCT	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	2001282991	2001-07-27	2001282991	2008-04-24	Wireless Valley Communications, LLC
Belgium	Designated EP	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	01961747.1	2001-07-27	1317706	2016-04-27	Wireless Valley Communications, LLC
China	Designated PCT	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	01813788.1	2001-07-27	ZL01813788.1	2006-09-06	Wireless Valley Communications, LLC

Germany (Federal Republic of)	Designated EP	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	01961747.1	2001-07-27	1317706	2016-04-27	Wireless Valley Communications, LLC
France	Designated EP	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	01961747.1	2001-07-27	1317706	2016-04-27	Wireless Valley Communications, LLC
United Kingdom	Designated EP	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	01961747.1	2001-07-27	1317706	2016-04-27	Wireless Valley Communications, LLC
Japan	Designated PCT	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	2002-517627	2001-07-27	4690634	2011-02-25	Wireless Valley Communications, LLC
Mexico	Designated PCT	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	PA/A/2003/001034	2001-07-27	246842	2007-06-29	Wireless Valley Communications, LLC
United States of America	Priority	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	09/632803	2000-08-04	7246045	2007-07-17	Wireless Valley Communications, LLC
United States of America	Divisional	Granted	System and Method for Efficiently Visualizing and Comparing Communication Network System Performance	10/956027	2004-10-04	7286971	2007-10-23	Wireless Valley Communications, LLC
United States of America	Priority	Granted	Method and System for Designing or Deploying a Communications Network Which Considers Component Attributes	09/632853	2000-08-04	7085697	2006-08-01	Wireless Valley Communications, LLC

United States of America	Priority	Granted	Method and System for Designing or Deploying a Communications Network Which Allows Simultaneous Selection of Multiple Components	09/633122	2000-08-04	7096173	2006-08-22	Wireless Valley Communications, LLC
United States of America	Priority	Granted	Method and System for Designing or Deploying a Communications Network Which Considers Frequency Dependant Effects	09/633121	2000-08-04	6625454	2003-09-23	Wireless Valley Communications, LLC
United States of America	Continuation	Granted	Method and System, with Component Kits for Designing or Deploying a Communications Network Which Considers Frequency Dependent Effects	10/606115	2003-06-26	7171208	2007-01-30	Wireless Valley Communications, LLC
United States of America	Divisional	Granted	Method and System, with Component Kits for Designing or Deploying a Communications Network Which Considers Frequency Dependent Effects	10/697557	2003-10-31	7680644	2010-03-16	Wireless Valley Communications, LLC
United States of America	Divisional	Granted	Method and System, with Component Kits for Designing or Deploying a Communications Network Which Considers Frequency Dependent Effects	11/624289	2007-01-18	7933605	2011-04-26	Wireless Valley Communications, LLC
United States of America	Re-Exam	Granted	Method and System for Designing or Deploying a Communications Network Which Considers Frequency Dependant Effects	90/009093	2008-03-28	6625454 C1	2011-11-15	Wireless Valley Communications, LLC
United States of America	Continuation	Granted	Method and System to Model Frequency Dependent Effects of a Communications Network	13/093445	2011-04-25	8290499	2012-10-16	Wireless Valley Communications, LLC

Mexico	Designated PCT	Granted	Method, and System for Automated Selection of Optimal Communication Network Equipment Model, Position, and Configuration In 3-D	PA/A/2003/002598	2001-09-21	242921	2006-12-20	Wireless Valley Communications, LLC
United States of America	Priority	Granted	Method, and System for Automated Selection of Optimal Communication Network Equipment Model, Position, and Configuration In 3-D	09/667689	2000-09-22	7055107	2006-05-30	Wireless Valley Communications, LLC
Australia	Designated PCT	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	2001291148	2001-09-21	2001291148	2007-03-16	Wireless Valley Communications, LLC
Canada	Designated PCT	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	2423157	2001-09-21	2423157	2009-06-30	Wireless Valley Communications, LLC
China	Designated PCT	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	01816269.X	2001-09-21	ZL01816269.X	2010-05-12	Wireless Valley Communications, LLC
China	Divisional	Published	System and Method for Design, Tracking, Measurement, Prediction and Optimization of Data Communication Networks	201010150086.8	2010-03-26			Wireless Valley Communications, LLC
Germany (Federal Republic of)	Designated EP	Granted	System and Method for Design, Tracking, Measurement, Prediction and Optimization of Data Communication Networks	01971240.5	2001-09-21	60130352.0	2007-09-05	Wireless Valley Communications, LLC

France	Designated EP	Granted	System and Method for Design, Tracking, Measurement, Prediction and Optimization of Data Communication Networks	01971240.5	2001-09-21	1328881	2007-09-05	Wireless Valley Communications, LLC
United Kingdom	Designated EP	Granted	System and Method for Design, Tracking, Measurement, Prediction and Optimization of Data Communication Networks	01971240.5	2001-09-21	1328881	2007-09-05	Wireless Valley Communications, LLC
Hong Kong	Secondary	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	04105653.3	2011-09-21	HK1062852	2010-11-12	Wireless Valley Communications, LLC
Korea, Republic of (KR)	Designated PCT	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	2003-7004297	2001-09-21	10-0813430	2008-03-07	Wireless Valley Communications, LLC
United States of America	Priority	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	09/668145	2000-09-25	6973622	2005-12-06	Wireless Valley Communications, LLC
United States of America	Continuation	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	11/184841	2005-07-20	8503336	2013-08-06	Wireless Valley Communications, LLC
United States of America	Re-Exam	Granted	System and Method for Design, Tracking, Measurement, Prediction, and Optimization of Data Communication Networks	90/009123	2008-04-24	6973622 C1	2010-02-02	Wireless Valley Communications, LLC
Australia	Designated PCT	Granted	Methods and Apparatus For Identifying Asset Location In Communication Networks	2002226884	2001-11-14	2002226884	2006-09-14	Symbol Technologies, LLC

Australia	Designated PCT	Granted	Method and Apparatus for Identifying Asset Location in Communication Networks	2002019785	2001-11-14	785280	2007-04-05	Symbol Technologies, LLC
Brazil	Designated PCT	Published	Methods and Apparatus for Identifying Asset Location in Communication Networks	PI0115959-3	2001-11-14			Symbol Technologies, LLC
Brazil	Designated PCT	Published	Method and Apparatus for Identifying Asset Location in Communication Networks	PI0107786-4	2001-11-14			Symbol Technologies, LLC
Canada	Designated PCT	Granted	Methods and Apparatus For Identifying Asset Location In Communication Networks	2419796	2001-11-14	2419796	2010-03-30	Symbol Technologies, LLC
Canada	Designated PCT	Granted	Method and Apparatus for Identifying Asset Location in Communication Networks	2398779	2001-11-14	2398779	2007-05-01	Symbol Technologies, LLC
China	Designated PCT	Granted	Method and Apparatus for Identifying Asset Location in Communication Networks	01803666.X	2001-11-14	ZL01803666.X	2009-03-04	Symbol Technologies, LLC
Germany (Federal Republic of)	Secondary	Granted	Methods and Apparatus for Identifying Asset Location in Communication Networks	01995836.2	2001-11-14	60144487.6	2011-04-20	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Method and Apparatus for Identifying Asset Location in Communication Networks	01996978.1	2001-11-14	60141283.4	2010-02-10	Symbol Technologies, LLC
France	Designated EP	Granted	Method and Apparatus for Identifying Asset Location in Communication Networks	01996978.1	2001-11-14	1336310	2010-02-10	Symbol Technologies, LLC
United Kingdom	Secondary	Granted	Methods and Apparatus for Identifying Asset Location in Communication Networks	01995836.2	2001-11-14	1336277	2011-04-20	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Method and Apparatus for Identifying Asset Location in Communication Networks	01996978.1	2001-11-14	1336310	2010-02-10	Symbol Technologies, LLC
Japan	Designated PCT	Granted	Methods and Apparatus For Identifying Asset Location In Communication Networks	2002-543795	2001-11-14	4594585	2010-09-24	Symbol Technologies, LLC

Japan	Designated PCT	Granted	Method and Apparatus for Identifying Asset Location in Communication Networks	2002-543246	2001-11-14	4226325	2008-12-05	Symbol Technologies, LLC
Japan	Divisional	Granted	Methods and Apparatus For Identifying Asset Location In Communication Networks	2007-184082	2001-11-14	4717035	2011-04-08	Symbol Technologies, LLC
Taiwan	Designated PCT	Granted	Wireless Clock Syncronization	091110394	2002-05-17	NI198807	2004-04-01	Symbol Technologies, LLC
United States of America	Secondary	Granted	Wireless Clock Syncronization	09/992200	2001-11-14	7030812	2006-04-18	Symbol Technologies, LLC
United States of America	Secondary	Granted	Methods and Apparatus For Identifying Asset Location In Communication Networks	09/926515	2001-11-14	7030811	2006-04-18	Symbol Technologies, LLC
United States of America	Secondary	Granted	Methods and Apparatus For Identifying Asset Location In Communication Networks	09/926516	2001-11-14	7069025	2006-06-27	Symbol Technologies, LLC
United States of America	Divisional	Granted	Methods and Apparatus For Identifying Asset Location In Communication Networks	11/347095	2006-02-03	7250906	2007-07-31	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and Apparatus for Wireless Outdoor Environment Communications Networks	09/713907	2000-11-16	6735450	2004-05-11	Symbol Technologies, LLC
China	Designated PCT	Granted	Textual and Graphical Demarcation of Location and Interpretation of Measurements	01820843.6	2001-12-17	ZL01820843 .6	2007-04-18	Wireless Valley Communications, LLC
United States of America	Secondary	Granted	Textual and Graphical Demarcation of Location and Interpretation of Measurements	10/015954	2001-12-17	7019753	2006-03-28	Wireless Valley Communications, LLC
United States of America	Divisional	Granted	Textual and Graphical Demarcation of Location and Interpretation of Measurements	11/329126	2006-01-11	7574323	2009-08-11	Wireless Valley Communications, LLC

China	Designated PCT	Granted	Method and System for Modeling and Managing Terrain, Buildings and Infrastructure	02804999.3	2002-02-12	ZL02804999 .3	2006-07-05	Wireless Valley Communications, LLC
United States of America	Secondary	Granted	Method and System for Modeling and Managing Terrain, Buildings and Infrastructure	09/954273	2001-09-18	7164883	2007-01-16	Wireless Valley Communications, LLC
United States of America	Secondary	Granted	System and Method of Ordering the Transmission of Data Packets In a Radio System	10/083040	2002-02-26	7260115	2007-08-21	Symbol Technologies, LLC
United States of America	Continuation	Granted	System and Method of Ordering the Transmission of Data Packets In a Radio System	11/841123	2007-08-20	7633974	2009-12-15	Symbol Technologies, LLC
United States of America	Priority	Granted	Site-Hosting, Mobile Terminal for Wireless Connection to Computer Network	09/814888	2001-03-22	6985461	2006-01-10	Symbol Technologies, LLC
Japan	Secondary	Granted	Blue Tooth Out-of-Band Management and Traffic Monitoring for Wireless Access Points	2002-210497	2002-07-19	4130882	2008-05-30	Symbol Technologies, LLC
United States of America	Secondary	Granted	Out-Of-Band Management and Traffic Monitoring for Wireless Access Points	09/911670	2001-07-24	7680085	2010-03-16	Symbol Technologies, LLC
Canada	Secondary	Granted	An Improved Power Saving Function for Wireless Lans: Methods, System and Program Products	2381118	2002-04-09	2381118	2010-12-07	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	An Improved Power Saving Function for Wireless Local Area Network (WLAN)	02006803.7	2002-03-25	60223989.3	2007-12-12	Symbol Technologies, LLC
France	Designated EP	Granted	An Improved Power Saving Function for Wireless Local Area Network (WLAN)	02006803.7	2002-03-25	1311086	2007-12-12	Symbol Technologies, LLC

United Kingdom	Designated EP	Granted	An Improved Power Saving Function for Wireless Local Area Network (WLAN)	02006803.7	2002-03-25	1311086	2007-12-12	Symbol Technologies, LLC
Japan	Secondary	Granted	Power Saving Function for Wireless Lans: Methods, System, and Program Products	2002-117335	2002-04-19	4346862	2009-07-24	Symbol Technologies, LLC
United States of America	Priority	Granted	Power Saving Function for Wireless Lans: Methods, System, and Program Products	09/986054	2001-11-07	7126945	2006-10-24	Symbol Technologies, LLC
United States of America	Divisional	Granted	Power Saving Function for Wireless Lans: Methods, System, and Program Products	11/538324	2006-10-03	7349356	2008-03-25	Symbol Technologies, LLC
United States of America	Continuation	Granted	Power Saving Function for Wireless Lans: Methods, System, and Program Products	12/030530	2008-02-13	7961660	2011-06-14	Symbol Technologies, LLC
United States of America	Secondary	Granted	XML Control Management	10/410468	2003-04-09	7917610	2011-03-29	Symbol Technologies, LLC
Australia	Designated PCT	Granted	System and Method for Making Managing Wireless Network Activity	2003241523	2003-05-20	2003241523	2009-11-19	AirDefense, LLC
Canada	Designated PCT	Granted	System and Method for Making Managing Wrieless Netowrk Activity	2486519	2003-05-20	2486519	2015-01-27	AirDefense, LLC
Germany (Federal Republic of)	Designated EP	Granted	System and Method for Making Managing Wireless Netowrk Activity	03731262.6	2003-05-20	60348307.0	2015-12-02	AirDefense, LLC
Spain	Designated EP	Granted	System and Method for Making Managing Wireless Netowrk Activity	03731262.6	2003-05-20	1522020	2015-12-02	AirDefense, LLC
France	Designated EP	Granted	System and Method for Making Managing Wireless Netowrk Activity	03731262.6	2003-05-20	1522020	2015-12-02	AirDefense, LLC

United Kingdom	Designated EP	Granted	System and Method for Making Managing Wireless Netowrk Activity	03731262.6	2003-05-20	1522020	2015-12-02	AirDefense, LLC
India	Designated PCT	Granted	System and Method for Making Managing Wireless Network Activity	3644/DELNP/2004	2003-05-20	258784	2014-02-06	AirDefense, LLC
Italy	Designated EP	Granted	System and Method for Making Managing Wireless Netowrk Activity	03731262.6	2003-05-20	1522020	2015-12-02	AirDefense, LLC
United States of America	Secondary	Granted	Method and System for Encrypted Network Management and Intrusion Detection	10/161137	2002-06-03	7383577	2008-06-03	AirDefense, LLC
United States of America	Secondary	Granted	Systems and Methods for Network Security	10/161142	2002-06-03	7086089	2006-08-01	AirDefense, LLC
United States of America	Secondary	Granted	System and Method for Wireless Lan Dynamic Channel Change with Honeypot Trap	10/161440	2002-06-03	7042852	2006-05-09	AirDefense, LLC
United States of America	Secondary	Granted	Method and System for Actively Defending a Wireless LAN Against Attacks	10/161443	2002-06-03	7058796	2006-06-06	AirDefense, LLC
United States of America	Continuation-in-part	Granted	System and Method for Sensing Wireless Lan Activity	10/360587	2003-02-06	7277404	2007-10-02	AirDefense, LLC
United States of America	Continuation-in-part	Granted	System and Methods for Automated Network Policy Exception Detection and Correction	10/700842	2003-11-04	7322044	2008-01-22	AirDefense, LLC
United States of America	Continuation-in-part	Granted	Systems and Methods for Adaptive Location Tracking	10/774034	2004-02-06	7532895	2009-05-12	AirDefense, LLC
United States of America	Continuation	Granted	Method and System for Actively Defending a Wireless LAN Against Attacks	11/370611	2006-03-08	7526808	2009-04-28	AirDefense, LLC
United States of America	Continuation	Granted	Active defense against wireless intruders	11/551315	2006-10-20	7779476	2010-08-17	AirDefense, LLC
United States of America	Continuation	Granted	Method and system for securing wireless local area	12/108429	2008-04-23	8060939	2011-11-15	AirDefense, LLC

			networks					
United States of America	Secondary	Granted	System And Method For Wired Network Synchronization For Real Time Location Tracking	10/610863	2003-06-30	7167717	2007-01-23	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Detection of a Rogue Wireless Access Point In a Wireless Communication Network	10/212291	2002-08-02	7068999	2006-06-27	Symbol Technologies, LLC
United States of America	Continuation	Granted	System and Method for Detection of a Rogue Wireless Access Point In a Wireless Communication Network	11/416761	2006-05-03	7676218	2010-03-09	Symbol Technologies, LLC
Taiwan	Secondary	Granted	System and Method for Medium Access Control in a Wireless Network	092123461	2003-08-26	I328978	2010-08-11	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Medium Access Control in a Wireless Network	10/227683	2002-08-26	6735445	2004-05-11	Symbol Technologies, LLC
United States of America	Priority	Granted	Internal Accessory Antenna System and Method for Wireless Network	10/235073	2002-09-04	8170611	2012-05-01	Symbol Technologies, LLC
European Patent	Designated PCT	Published	System and Method for Wireless Network Channel Management	03754843.5	2003-09-23			Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Wireless Network Channel Management	10/253005	2002-09-23	6925094	2005-08-02	Symbol Technologies, LLC
United States of America	Secondary	Granted	Light Fixture Wireless Access Points	10/758504	2004-01-15	7162258	2007-01-09	Symbol Technologies, LLC
Australia	Designated PCT	Granted	System and Method for Indicating the Presence or Physical Location of Persons Or Devices in a Site Specific Representation of a Physical	2004206564	2004-01-16	2004206564	2010-03-04	Wireless Valley Communications, LLC

			Environment					
Germany (Federal Republic of)	Designated EP	Granted	System and Method for Automated Placement of Configuration of Equipment for Obtaining Desired Network Performcane Objectives and for Security, RF Tags and Bandwidth Provisioning	04703062.2	2004-01-16	602004042036.0	2013-05-08	Wireless Valley Communications, LLC
France	Designated PCT	Granted	System and Method for Automated Placement of Configuration of Equipment for Obtaining Desired Network Performcane Objectives and for Security, RF Tags and Bandwidth Provisioning	04703062.2	2004-01-16	1595192	2013-05-08	Wireless Valley Communications, LLC
United Kingdom	Designated PCT	Granted	System and Method for Automated Placement of Configuration of Equipment for Obtaining Desired Network Performcane Objectives and for Security, RF Tags and Bandwidth Provisioning	04703062.2	2004-01-16	1595192	2013-05-08	Wireless Valley Communications, LLC
Japan	Divisional	Granted	System And Method For Automated Placement Of Configuration of Equipment for Obtaining Desired Network Performance Objectives and for Security, RF Tags and Bandwidth Provisioning	2010-118775	2011-05-28	5144713	2012-11-30	Wireless Valley Communications, LLC

United States of America	Secondary	Granted	System And Method For Automated Placement Of Configuration of Equipment for Obtaining Desired Network Performance Objectives and for Security, RF Tags and Bandwidth Provisioning	10/386943	2003-03-13	7295960	2007-11-13	Wireless Valley Communications, LLC
United States of America	Continuation-in-part	Granted	System And Method For Automated Placement Of Configuration of Equipment for Obtaining Desired Network Performance Objectives and for Security, RF Tags and Bandwidth Provisioning	10/714929	2003-11-18	7295119	2007-11-13	Wireless Valley Communications, LLC
China	Designated PCT	Granted	Virtual Wireless Local Area Networks	200480006549.6	2004-02-05	ZL200480006549.6	2010-01-20	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Method and System for Multiple Basic and Extended Service Set Identifiers in Wireless Local Area Networks	05742154.7	2005-04-28			Symbol Technologies, LLC
Japan	Designated PCT	Granted	Virtual Wireless Local Area Networks	2006-503385	2004-02-05	4504970	2010-04-30	Symbol Technologies, LLC
United States of America	Secondary	Granted	Virtual Wireless Local Area Networks	10/773931	2004-02-06	7280520	2007-10-09	Symbol Technologies, LLC
United States of America	Continuation-in-part	Granted	Method and System for Multiple Basic and Extended Service Set Identifiers In Wireless Local Area Networks	10/838703	2004-05-04	7492744	2009-02-17	Symbol Technologies, LLC
United States of America	Secondary	Granted	System and Methods for Adaptively Scanning for Wireless Communications	10/700844	2003-11-04	7359676	2008-04-15	AirDefense, LLC
United States of America	Secondary	Granted	System and Methods for Dynamic Sensor Discovery and Selection	10/773915	2004-02-06	7324804	2008-01-29	AirDefense, LLC

United States of America	Secondary	Granted	System and Methods for Wireless Network Site Survey Systems and Methods	10/774111	2004-02-06	7522908	2009-04-21	AirDefense, LLC
United States of America	Secondary	Granted	Method for Tracking Location of a Mobile Unit	10/852347	2004-05-24	7424300	2008-09-09	Symbol Technologies, LLC
United States of America	Continuation	Granted	Method for Tracking Location of a Mobile Unit	12/194785	2008-08-20	7873368	2011-01-18	Symbol Technologies, LLC
China	Designated PCT	Granted	Backup Cell Controller	200480014724.6	2004-05-28	ZL200480014724.6	2008-06-25	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Backup Cell Controller	1634171	2004-05-28	602004010111.7	2007-11-14	Symbol Technologies, LLC
France	Designated EP	Granted	Backup Cell Controller	04753920.0	2004-05-28	1634171	2007-11-14	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Backup Cell Controller	04753920.0	2004-05-28	1634171	2007-11-14	Symbol Technologies, LLC
Japan	Designated PCT	Granted	Backup Cell Controller	2006-533533	2004-05-28	4478686	2010-03-19	Symbol Technologies, LLC
United States of America	Secondary	Granted	Backup Cell Controller	10/856156	2004-05-28	7376079	2008-05-20	Symbol Technologies, LLC
United States of America	Secondary	Granted	Method for Mobile Unit Location Estimate In a Wireless LAN	10/861182	2004-06-04	7542770	2009-06-02	Symbol Technologies, LLC
United States of America	Secondary	Granted	Bandwidth Management in Wireless Networks	10/919622	2004-08-17	7668201	2010-02-23	Symbol Technologies, LLC
China	Designated PCT	Granted	System and Method for Determining Location of Rogue Wireless Access Point	200480031433.8	2004-10-28	ZL200480031433.8	2011-01-05	Symbol Technologies, LLC
European Patent	Designated PCT	Published	System and Method for Determining Location of Rogue Wireless Access Point	04796584.3	2004-10-28			Symbol Technologies, LLC
Japan	Designated PCT	Granted	System and Method for Determining Location of Rogue Wireless Access Point	2006-538228	2004-10-28	4747099	2011-05-20	Symbol Technologies, LLC

Taiwan	Secondary	Granted	System and Method for Determining Location of Rogue Wireless Access Point	093133047	2004-10-29	I345427	2011-07-11	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Determining Location of Rogue Wireless Access Point	10/699257	2003-10-31	7069024	2006-06-27	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Improved WLAN Roaming Based on Location	04800994.8	2004-11-10			Symbol Technologies, LLC
United States of America	Priority	Granted	WLANRoaming Based On Location	10/705277	2003-11-10	7127258	2006-10-24	Symbol Technologies, LLC
United States of America	Priority	Granted	Modular Access Point	10/717068	2003-11-19	7720445	2010-05-18	Symbol Technologies, LLC
United States of America	Continuation	Granted	Modular Access Point	12/055572	2008-03-26	8417302	2013-04-09	Symbol Technologies, LLC
Japan	Designated PCT	Granted	Method and Apparatus for Configuring a Voice Over IP Client Connection	2006-545538	2004-12-17	5065685	2012-08-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and Apparatus for Configuring a Voice Over IP Client Connection	10/741971	2003-12-19	7272414	2007-09-18	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Methods for Adaptive Monitoring with Bandwidth Contraints	10/773896	2004-02-06	7355996	2008-04-08	AirDefense, LLC
Australia	Designated PCT	Granted	A Method and System for Communicating Data to a Wireless Access Point	2005223909	2005-03-09	2005223909	2010-07-15	Symbol Technologies, LLC
Canada	Designated PCT	Granted	Method and System for Communicating Data to a Wireless Access Point	2557601	2005-03-09	2557601	2014-03-04	Symbol Technologies, LLC
European Patent	Designated PCT	Published	A Method and System for Communicating Data to a Wireless Access Point	05725077.1	2005-03-09			Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System for Communicating Data to a Wireless Access Point	10/799064	2004-03-11	7385476	2008-06-10	Symbol Technologies, LLC

European Patent	Designated PCT	Published	Protocol for Communication Between Access Ports and Wireless Switches	05746619.5	2005-04-28			Symbol Technologies, LLC
Japan	Designated PCT	Granted	Protocol For Communication Between Access Ports and Wireless Switches	2007-511015	2005-04-28	4730917	2011-04-28	Symbol Technologies, LLC
United States of America	Priority	Granted	Protocol for Communication Between Access Ports and Wireless Switches	10/834742	2004-04-28	7639656	2009-12-29	Symbol Technologies, LLC
United States of America	Priority	Granted	Reconfigurable Arrays of Wireless Access Points	10/881550	2004-06-30	7496070	2009-02-24	Symbol Technologies, LLC
United States of America	Priority	Granted	Service Orientated Platform Architecture for a Wireless Network	10/891619	2004-07-15	8321545	2012-11-27	Symbol Technologies, LLC
United States of America	Secondary	Granted	System, Method and Apparatus for Determining and Using the Position of Wireless Devices or Infrastructure for Wireless Network Enhancements	11/186929	2005-07-22	8019352	2011-09-13	Wireless Valley Communications, LLC
United States of America	Priority	Granted	Network Access Port	29/213492	2004-09-17	D512052	2005-11-29	Symbol Technologies, LLC
United States of America	Priority	Granted	Network Access Port	29/213473	2004-09-17	D510343	2005-10-04	Symbol Technologies, LLC
United States of America	Divisional	Granted	Aircraft Traffic Warning System using an Ad-Hoc Radio Network	11/691342	2007-03-26	7349774	2008-03-25	Symbol Technologies, LLC
Australia	Divisional	Granted	Sectorized Wireless Communication Network Operating Under 802.11 Specifications	2011202551	2011-05-31	2011202551	2014-07-03	Symbol Technologies, LLC
Canada	Designated PCT	Granted	Sectorized Wireless Communication Network Operating Under 802.11 Specifications	2599012	2006-02-28	2599012	2015-04-21	Symbol Technologies, LLC
China	Designated PCT	Granted	Sectorized Wireless Communication Network Operating Under 802.11	200680006350.2	2006-02-28	ZL200680006350.2	2012-11-07	Symbol Technologies, LLC

			Specifications					
China	Divisional	Granted	Sectorized Wireless Communication Network Operating Under 802.11 Specifications	201210350064.5	2006-02-28	201210350064.5	2015-08-05	Symbol Technologies, LLC
United States of America	Priority	Granted	Sectorized Wireless Communication Network Operating Under 802.11 Specifications	11/068510	2005-02-28	7596388	2009-09-29	Symbol Technologies, LLC
Canada	Designated PCT	Granted	Secure Switching System for Networks and Method for Securing Switching	2602581	2006-03-28	2602581	2014-07-08	Symbol Technologies, LLC
China	Designated PCT	Granted	Secure Switching System for Networks and Method for Securing Switching	200680008836.X	2006-03-28	ZL200680008836.X	2012-12-26	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Secure Switching System for Networks and Method for Securing Switching	06748940.1	2006-03-28			Symbol Technologies, LLC
United States of America	Priority	Granted	Secure Switching System for Networks and Method for Securing Switching	11/095065	2005-03-30	7669230	2010-02-23	Symbol Technologies, LLC
Canada	Designated PCT	Granted	Method, System, and Apparatus For Creating An Active Client List To Support Layer 3 Roaming In Wireless Local Area Networks (WLANS)	2605842	2006-04-13	2605842	2014-05-27	Symbol Technologies, LLC
China	Designated PCT	Granted	Method, System, and Apparatus For Creating An Active Client List To Support Layer 3 Roaming In Wireless Local Area Networks (WLANS)	200680022113.5	2006-04-13	ZL200680022113.5	2011-06-15	Symbol Technologies, LLC

European Patent	Designated PCT	Published	Method, System and Apparatus for Creating an Active Client List to Support Layer 3 Roaming in Wireless Local Area Networks	06750185.8	2006-04-13			Symbol Technologies, LLC
United States of America	Priority	Granted	Method, System, and Apparatus For Creating an Active Client List to Support Layer 3 Roaming In Wireless Local Area Networks(WLANS)	11/116660	2005-04-27	7515573	2009-04-07	Symbol Technologies, LLC
United States of America	Priority	Granted	Method, System, and Apparatus For Creating An Active Client List To Support Layer 3 Roaming In Wireless Local Area Networks (WLANS)	11/116599	2005-04-27	7443809	2008-10-28	Symbol Technologies, LLC
Canada	Designated PCT	Granted	Encapsulation Scheme for Use with Access Points in Wireless Networks	2610040	2006-04-12	2610040	2014-09-30	Symbol Technologies, LLC
China	Designated PCT	Granted	Time Slot Reservation Scheme In Wireless Meshed Networks	200680022876.X	2006-04-12	ZL200680022876.X	2012-10-31	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Time Slot Reservation Scheme in Wireless Meshed Networks	06750042.1	2006-04-12	602006009505.8	2009-09-30	Symbol Technologies, LLC
France	Designated EP	Granted	Time Slot Reservation Scheme in Wireless Meshed Networks	06750042.1	2006-04-12	1884069	2009-09-30	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Time Slot Reservation Scheme in Wireless Meshed Networks	06750042.1	2006-04-12	1884069	2009-09-30	Symbol Technologies, LLC
United States of America	Priority	Granted	Time Slot Reservation Scheme In Wireless Meshed Networks	11/138799	2005-05-26	7424000	2008-09-09	Symbol Technologies, LLC

Canada	Designated PCT	Granted	Method, System, and Apparatus For Load Balancing of Wireless Switches to Support Layer 3 Roaming In Wireless Local Area Networks (WLANS)	2609715	2006-05-25	2609715	2014-03-25	Symbol Technologies, LLC
China	Designated PCT	Granted	Method, System, and Apparatus for Load Balancing of Wireless Switches to Support Layer 3 Roaming in Wireless Local Area Networks	200680025100.3	2006-05-25	ZL200680025100.3	2012-12-26	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Method, System and Apparaturs for Load Balancing of Wireless Switches to Support Layer 3 Roaming in Wireless Local Area Networks	06771154.9	2006-05-25	602006014134.3	2010-05-05	Symbol Technologies, LLC
France	Designated EP	Granted	Method, System and Apparaturs for Load Balancing of Wireless Switches to Support Layer 3 Roaming in Wireless Local Area Networks	06771154.9	2006-05-25	1884089	2010-05-05	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Method, System and Apparaturs for Load Balancing of Wireless Switches to Support Layer 3 Roaming in Wireless Local Area Networks	06771154.9	2006-05-25	1884089	2010-05-05	Symbol Technologies, LLC
United States of America	Priority	Granted	Method, System, and Apparatus For Load Balancing of Wireless Switches to Support Layer 3 Roaming In Wireless Local Area Networks (WLANS)	11/139155	2005-05-26	7529203	2009-05-05	Symbol Technologies, LLC
Canada	Designated PCT	Granted	System and Method for Providing Automatic Load Balancing and Redundancy In Access Port Adoption	2608225	2006-05-25	2608225	2014-02-18	Symbol Technologies, LLC

China	Designated PCT	Granted	System and Method for Providing Automatic Load Balancing and Redundancy in Access Port Adoption	200680018300.6	2006-05-25	ZL200680018300.6	2013-01-16	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated PCT	Granted	System and Method for Providing Automatic Load BAlancing and Redundancy in Access Port Adoption	06760548.5	2006-05-25	602006039432.2	2013-11-27	Symbol Technologies, LLC
France	Designated PCT	Granted	System and Method for Providing Automatic Load Balancing and Redundancy in Access Port Adoption	06760548.5	2006-05-25	1884074	2013-11-27	Symbol Technologies, LLC
United Kingdom	Designated PCT	Granted	System and Method for Providing Automatic Load BAlancing and Redundancy in Access Port Adoption	06760548.5	2006-05-25	1884074	2013-11-27	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Providing Automatic Load Balancing and Redundancy In Access Port Adoption	11/140352	2005-05-26	7499411	2009-03-03	Symbol Technologies, LLC
Canada	Designated PCT	Granted	Wireless Network System with Wireless Access Ports	2610618	2006-05-26	2610618	2013-06-18	Symbol Technologies, LLC
China	Designated PCT	Granted	Wireless Network System with Wireless Access Ports	200680019375.6	2006-05-26	ZL200680019375.6	2010-10-06	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated PCT	Granted	Wireless Network Systems with Wireless Access Ports	06771570.6	2006-05-26	602006023865.7	2011-08-17	Symbol Technologies, LLC
France	Designated PCT	Granted	Wireless Network Systems with Wireless Access Ports	06771570.6	2006-05-26	1886439	2011-08-17	Symbol Technologies, LLC
United Kingdom	Designated PCT	Granted	Wireless Network Systems with Wireless Access Ports	06771570.6	2006-05-26	1886439	2011-08-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Wireless Network System with Wireless Access Ports	11/142110	2005-05-31	7729326	2010-06-01	Symbol Technologies, LLC
United States of America	Priority	Granted	Time Division Multiplexing for Access Ports In a Wireless Network	11/171512	2005-06-30	7822000	2010-10-26	Symbol Technologies, LLC

United States of America	Priority	Granted	Method and System for Determining Existence of a Predetermined Wireless Network Coverage Condition In a Wireless Network	11/191854	2005-07-28	7437127	2008-10-14	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method For Detecting Activity on a Frequency Band	11/265423	2005-11-02	7593715	2009-09-22	Symbol Technologies, LLC
Canada	Designated PCT	Granted	System and Method for Managing Multi-Channel Communication	2627072	2006-11-02	2627072	2014-09-30	Symbol Technologies, LLC
China	Designated PCT	Granted	System and Method for Managing Multi-Channel Communication	200680041256.0	2006-11-02	ZL200680041256.0	2012-11-21	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	System and Method for Managing Multi-Channel Communication	06836910.7	2006-11-02	602006028864.6	2012-04-11	Symbol Technologies, LLC
France	Designated EP	Granted	System and Method for Managing Multi-Channel Communication	06836910.7	2006-11-02	1946599	2012-04-11	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	System and Method for Managing Multi-Channel Communication	06836910.7	2006-11-02	1946599	2012-04-11	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System for Managing Multi-Channel Communication	11/267696	2005-11-03	7688782	2010-03-30	Symbol Technologies, LLC
United States of America	Priority	Granted	Ceiling Mount	11/267006	2005-11-04	7621497	2009-11-24	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Locationing in a Communications Network	11/266929	2005-11-04	7742456	2010-06-22	Symbol Technologies, LLC
European Patent	Designated PCT	Published	System and Method for Data Communications in a Wireless Network	06838330.6	2006-11-21			Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Data Communications in a Wireless Network	11/290920	2005-11-30	8204039	2012-06-19	Symbol Technologies, LLC

United States of America	Priority	Granted	Systems and Methods for Wireless Vulnerability Analysis	11/312042	2005-12-19	7577424	2009-08-18	AirDefense, LLC
United States of America	Continuation	Granted	System and Method for Clustering Wireless Devices in a Wireless Network	12/360240	2009-01-27	7961673	2011-06-14	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Methods for Wireless Intrustion Detection Using Spectral Analysis	11/332065	2006-01-13	7715800	2010-05-11	AirDefense, LLC
United States of America	Secondary	Granted	Methods and Apparatus for Simplified Setup of Centralized WLAN Switching	11/679237	2007-02-27	7903624	2011-03-08	Symbol Technologies, LLC
China	Designated PCT	Granted	Methods and Apparatus for Cluser Licensing in Wireless Switch Architecture	200780013537.X	2007-02-28	ZL200780013537.X	2012-08-08	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Methods and Apparatus for Cluser Licensing in Wireless Switch Architectre	07757640.3	2007-02-28	602007041795.3	2015-06-17	Symbol Technologies, LLC
France	Designated EP	Granted	Methods and Apparatus for Cluser Licensing in Wireless Switch Architectre	07757640.3	2007-02-28	1989838	2015-06-17	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Methods and Apparatus for Cluser Licensing in Wireless Switch Architectre	07757640.3	2007-02-28	1989838	2015-06-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Apparatus For Cluser Licensing In Wireless Switch Architecture	11/364815	2006-02-28	7869346	2011-01-11	Symbol Technologies, LLC
United States of America	Priority	Granted	Systems and Methods for Wireless Security Using Distributed Collaboration of Wireless Clients	11/276925	2006-03-17	7971251	2011-06-28	AirDefense, LLC
Germany (Federal Republic of)	Designated EP	Granted	System and Method for Providing Differentiated Service Levels to Wireless Devices	602007042798.3	2007-03-20	1999988	2015-06-08	Symbol Technologies, LLC

France	Designated EP	Granted	System and Method for Providing Differentiated Service Levels to Wireless Devices	07758915.8	2007-03-20	1999988	2015-06-08	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	System and Method for Providing Differentiated Service Levels to Wireless Devices	07758915.8	2007-03-20	1999988	2015-06-08	Symbol Technologies, LLC
United States of America	Priority	Granted	System and Method for Providing Differentiated Service Levels to Wireless Devices In a Wireless Network	11/391626	2006-03-28	7720464	2010-05-18	Symbol Technologies, LLC
United States of America	Priority	Granted	Transmit Diversity Algorithm for Improved Performance In Poor Signal Conditions	11/405240	2006-04-17	7813443	2010-10-12	Symbol Technologies, LLC
United States of America	Priority	Granted	Systems and Methods for Wireless Network Content Filtering	11/424628	2006-06-16	7970013	2011-06-28	AirDefense, LLC
United States of America	Priority	Granted	Techniques for Peer Wireless Switch Discovery Within a Mobility Domain	11/480051	2006-06-30	7804806	2010-09-28	Symbol Technologies, LLC
United States of America	Priority	Granted	Mobility Relay Techniques for Reducing Layer 3 Mobility Control Traffic and Peering Sessions to Provide Scalability In Large Wireless Switch Networks	11/482394	2006-07-07	7826869	2010-11-02	Symbol Technologies, LLC
United States of America	Priority	Granted	Wireless Switch Network Architecture Implementing Mobility Areas Within a Mobility Domain	11/482368	2006-07-07	7961690	2011-06-14	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated PCT	Granted	Wireless Switch Network Architecture Implementing Layer 3 Mobility Domains	07799202.2	2007-06-29	602007034931.1	2014-01-22	Symbol Technologies, LLC
France	Designated PCT	Granted	Wireless Switch Network Architecture Implementing Layer 3 Mobility Domains	07799202.2	2007-06-29	2041944	2014-01-22	Symbol Technologies, LLC

United Kingdom	Designated PCT	Granted	Wireless Switch Network Architecture Implementing Layer 3 Mobility Domains	07799202.2	2007-06-29	2041944	2014-01-22	Symbol Technologies, LLC
United States of America	Priority	Granted	Wireless Switch Network Architecture Implementing Layer 3 Mobility Domains	11/486629	2006-07-14	7916682	2011-03-29	Symbol Technologies, LLC
United States of America	Priority	Granted	Techniques For Home Wireless Switch Redundancy And Stateful Switchover In a Network Of Wireless Switches Supporting Layer 3 Mobility Within A Mobility Domain	11/490296	2006-07-20	7639648	2009-12-29	Symbol Technologies, LLC
United States of America	Priority	Granted	Hitless Restart Mechanism for Non-Stop Data-Forwarding In the Event of L3-Mobility Control-Plane Failure Wireless Switch	11/490298	2006-07-20	7613150	2009-11-03	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System for Loss-Less Roaming with Wireless Bridging	11/495448	2006-07-28	7826425	2010-11-02	Symbol Technologies, LLC
United States of America	Continuation-in-part	Granted	Loseless Roaming Via Bridging Between Access Ports	11/942422	2007-11-19	8111676	2012-02-07	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Systems for Wired Equivalent Privacy and Wi-Fi Protected Access Protection	11/464043	2006-08-11	8281392	2012-10-02	AirDefense, LLC
United States of America	Priority	Granted	Pre-Authentication Across an 802.11 Layer-3 IP Network	11/515119	2006-08-31	7869438	2011-01-11	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Systems for Centralized Cluster Management In Wireless Switch Architecture	11/529988	2006-09-29	7760695	2010-07-20	Symbol Technologies, LLC
United States of America	Priority	Granted	Systems and Methods for Proactively Enforicing a Wireless Free Zone	11/603814	2006-11-22	7783300	2010-08-24	AirDefense, LLC

United States of America	Priority	Granted	Systems and Methods For Generating, Managing, and Displaying Alarms For Wireless Network Monitoring	11/711371	2007-02-27	8205244	2012-06-19	AirDefense, LLC
United States of America	Secondary	Granted	System and MEthod for WLAN Multi-Channel Redundancy for VOIP Optimization	12/057631	2008-03-28	8134985	2012-03-13	Symbol Technologies, LLC
United States of America	Secondary	Granted	System and Method for Deployment of a Wireless Infrastructure	11/876529	2007-10-22	7912469	2011-03-22	Symbol Technologies, LLC
United States of America	Priority	Granted	Optimizing Positions of Time Slots In a Hybrid Time Division Multiple Access (TDMA)-Carrier Sense Multiple Access (CSMA) Medium Access Control (MAC) For Multi-Hop Ad Hoc Networks	11/767171	2007-06-22	8320321	2012-11-27	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and Apparatus for Improved Locationing In a Wireless Network	11/770387	2007-06-28	7826862	2010-11-02	Symbol Technologies, LLC
United States of America	Priority	Granted	User Priority Based Preemption Techniques in a Time Division Multiple Access Multi-Hop Ad Hoc Network	11/781015	2007-07-20	8300618	2012-10-30	Symbol Technologies, LLC
United States of America	Priority	Granted	Enterprise Network Architecture for Implementing a Virtual Private Network for Wireless Users By Mapping Wireless LANs To IP Tunnels	11/831315	2007-07-31	7961725	2011-06-14	Symbol Technologies, LLC
United States of America	Priority	Granted	Forwarding Broadcast/Multicast Data When Wireless Clients Layer 3 Roam Across IP Subnets In A WLAN	11/831778	2007-07-31	7885233	2011-02-08	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and Device for Routing Mesh Network Traffic	11/835024	2007-08-07	8130656	2012-03-06	Symbol Technologies, LLC

United States of America	Priority	Granted	Optimized RF Coverage Using AJAX and SVG	11/848689	2007-08-31	8027266	2011-09-27	Symbol Technologies, LLC
United States of America	Priority	Granted	Optimization Of Displayed RF Coverage	11/848674	2007-08-31	8185121	2012-05-22	Symbol Technologies, LLC
India	Secondary	Application	Methods and Apparatus For Split Policy Enforcement In Wireless Networks	1851/CHE/2008	2008-08-01			Symbol Technologies, LLC
United States of America	Secondary	Granted	Methods and Apparatus For Split Policy Enforcement In Wireless Networks	12/267359	2008-11-07	8134987	2012-03-13	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System For Updating a Virtual Local Area Network (VLAN) Status Of a Node In a Mesh Network	12/059625	2008-03-31	7792110	2010-09-07	Symbol Technologies, LLC
United States of America	Priority	Granted	Method for Aggregating Frames In a Wireless Communicatin Network	12/130439	2008-05-30	8249105	2012-08-21	Symbol Technologies, LLC
United States of America	Priority	Granted	Power Over Ethernet Combiner	12/138890	2008-06-13	7737573	2010-06-15	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and Apparatus for Balancing Load Across Access Devices In a Wireless Network	12/141685	2008-06-18	8223732	2012-07-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Wireless Switch with Virtual Wireless Switch Modules	12/182852	2008-07-30	8036161	2011-10-11	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System for Determining Power Over Ethernet Class Capabilities	12/182580	2008-07-30	8225124	2012-07-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Apparatus for Priority-Based Adoption of an Access Device	12/188411	2008-08-08	8811295	2014-08-19	Symbol Technologies, LLC
United States of America	Priority	Granted	Access Port Adoption to Multiple Wireless Switches	12/234145	2008-09-19	8027248	2011-09-27	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System for Tuning and Self-Monitoring of Wireless Networks	12/238077	2008-09-25	7966010	2011-06-21	Symbol Technologies, LLC

United States of America	Priority	Granted	Coverage-Hole Detection and Self Healing	12/250802	2008-10-14	8139543	2012-03-20	Symbol Technologies, LLC
United States of America	Priority	Granted	Self-Configuration of Wireless Access Devices In a Wireless Network Environment	12/255445	2008-10-21	8189547	2012-05-29	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and Apparatus for Channel Selection In a Wireless Communication System	12/257374	2008-10-23	8588146	2013-11-19	Symbol Technologies, LLC
United States of America	Priority	Granted	Self-Assignment Of Detectors And Workers Among Access Devices In a Wireless Network Environment	12/259960	2008-10-28	8170050	2012-05-01	Symbol Technologies, LLC
United States of America	Priority	Granted	Communicating a Packet From a Mesh-Enabled Access Point to a Mesh Portal In a Multi-Hop Mesh Network	12/261872	2008-10-30	8612752	2013-12-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Apparatus For Locating a Mobile Device In a Sleep Mode	12/263003	2008-10-31	8391169	2013-03-05	Symbol Technologies, LLC
United States of America	Priority	Granted	Method for Adaptive Beaconing	12/327481	2008-12-03	8184610	2012-05-22	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Apparatus For Implementing a Search Tree	12/349924	2009-01-07	8171539	2012-05-01	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Apparatus For Layer 2 and Layer 3 Security Between Wireless Termination Points	12/361624	2009-01-29	8281134	2012-10-02	Symbol Technologies, LLC
United States of America	Priority	Granted	Methods and Apparatus for Recovering From Misconfiguration In a WLAN	12/362647	2009-01-30	8121102	2012-02-21	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and System For Collecting Locationing Information In a Wireless Local Area Network	12/409973	2009-03-24	8033149	2011-10-11	Symbol Technologies, LLC

United States of America	Priority	Granted	System and Method for Selecting a Route Based On Link Metrics Incorporating Channel Bandwidth, Spatial Streams and/or Guard Interval In a Multiple-Input Multipe-Output (MIMO) Network	12/415687	2009-03-31	8798034	2014-08-05	Symbol Technologies, LLC
United States of America	Priority	Granted	Method to Lower the Operating Cost of Wireless Network by Enforcing Low Power Infrastructure Operation	12/415539	2009-03-31	9003205	2015-04-07	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Systems and Methods for Concurrent Wireless Local Area Network Access and Sensing	10717998.8	2010-05-06			Symbol Technologies, LLC
United States of America	Priority	Granted	Systems and Methods for Concurrent Wireless Local Area Network Access and Sensing	12/468164	2009-05-19	8694624	2014-04-08	Symbol Technologies, LLC
United States of America	Priority	Granted	Modifying System Clocks Based on Particular WLAN Channel that is Selected to Improve RF Sensitivity of a Radio Module	12/549043	2009-08-27	8223657	2012-07-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Systems And Methods For Dynamic Load Balancing In a Wireless Network	12/567928	2009-09-28	8451735	2013-05-28	Symbol Technologies, LLC
United States of America	Priority	Granted	Extensible Authentication Protocol Attack Detection Systems and Methods	12/570671	2009-09-30	8756690	2014-06-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Wireless Local Area Network Infrastructure Devices having Improved Firewall Features	12/649532	2009-12-30	8826413	2014-09-02	Symbol Technologies, LLC
China	Designated PCT	Granted	Managing Wireless Wide Area Network Bandwidth Constraints in a Communication Network	201080066770.6	2010-12-27	102893653	2015-08-26	Symbol Technologies, LLC

European Patent	Designated PCT	Published	Managing Wireless Wide Area Network Bandwidth Bandwidth Constraints In a Communication Network	10801344.2	2010-12-27			Symbol Technologies, LLC
United States of America	Priority	Granted	Managing Wireless Wide Area Network Bandwidth Bandwidth Constraints in a Communication Network	12/780091	2010-05-14	8798000	2014-08-05	Symbol Technologies, LLC
United States of America	Priority	Granted	Mitigating Excessive Operations Attacks in a Wireless Communication Network	12/824928	2010-06-28	8392990	2013-03-05	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Distributed Propagation of Data In a Wireless Communiation Network	11767146.1	2011-09-30			Symbol Technologies, LLC
United States of America	Priority	Granted	Distributed Propagation of Data In a Wireless Communiation Network	12/914636	2010-10-28	8352604	2013-01-08	Symbol Technologies, LLC
India	Priority	Published	Method and Apparatus for Detecting a Rogue Access Point In a Communication Network	2712/DEL/2010	2010-11-15			Symbol Technologies, LLC
United States of America	Secondary	Granted	Method and Apparatus for Detecting a Rogue Access Point In a Communication Network	13/293867	2011-11-10	8549634	2013-10-01	Symbol Technologies, LLC
United States of America	Priority	Granted	Detection of an Unauthorized Access Poitn In a Wireless Communication Network	12/957260	2010-11-30	8493977	2013-07-23	Symbol Technologies, LLC
United States of America	Priority	Granted	Detection of Unauthorized Changes to an Address Resolution Protocol Cache in a Communication Network	12/978927	2010-12-27	8923133	2014-12-30	Symbol Technologies, LLC
China	Designated PCT	Published	Mode Steering in a Wireless Communication Network	201280013832.6	2012-02-24			Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Mode Steering in a Wireless Communication Network	12717915.8	2012-02-24	602012007761.1	2015-06-03	Symbol Technologies, LLC

France	Designated EP	Granted	Mode Steering in a Wireless Communication Network	12717915.8	2012-02-24	2687049	2015-06-03	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Mode Steering in a Wireless Communication Network	12717915.8	2012-02-24	2687049	2015-06-03	Symbol Technologies, LLC
Mexico	Designated PCT	Granted	Mode Steering in a Wireless Communication Network	MX/a/2013/010529	2012-02-24	323241	2014-09-02	Symbol Technologies, LLC
United States of America	Priority	Granted	Mode Steering in a Wireless Communication Network	13/050409	2011-03-17	8594064	2013-11-26	Symbol Technologies, LLC
United States of America	Priority	Granted	Client Bridge Between Wired and Wireless Communication Networks	13/156823	2011-06-09	8553603	2013-10-08	Symbol Technologies, LLC
United States of America	Priority	Published	Self-Testing of Services in an Access Point of a Communication Network	13/184142	2011-07-15			Symbol Technologies, LLC
Belgium	Designated EP	Granted	Serially Distributed Access Point in a Communication Network	12745941.0	2012-07-17	2737665	2016-03-23	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Serially Distributed Access Point in a Communication Network	12745941.0	2012-07-17	2737665	2016-03-23	Symbol Technologies, LLC
European Patent	Divisional	Published	Serially Distributed Access Point in a Communication Network	16150236.4				Symbol Technologies, LLC
France	Designated EP	Granted	Serially Distributed Access Point in a Communication Network	12745941.0	2012-07-17	2737665	2016-03-23	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Serially Distributed Access Point in a Communication Network	12745941.0	2012-07-17	2737665	2016-03-23	Symbol Technologies, LLC
United States of America	Priority	Granted	Serially Distributed Access Point in a Communication Network	13/193060	2011-07-28	8705967	2014-04-22	Symbol Technologies, LLC
United States of America	Divisional	Granted	Serially-Distributed Devices in a Communication Network	14/087150	2013-11-22	9088837	2015-07-21	Symbol Technologies, LLC
United States of America	Priority	Granted	Hybrid Broadcast Packet Replication for Virtual Local Area Networks	13/219021	2011-08-26	8811361	2014-08-19	Symbol Technologies, LLC

United States of America	Priority	Granted	Adaptive Data Rate Limiter in a Wireless communication Device	13/300568	2011-11-19	8755274	2014-06-17	Symbol Technologies, LLC
United States of America	Priority	Granted	Distributed Firewalling In a Wireless Communication Network	13/306352	2011-11-29	8516567	2013-08-20	Symbol Technologies, LLC
United States of America	Priority	Granted	Radio Frequency Barrier in a Wireless Communication Network	13/413694	2012-03-07	8929803	2015-01-06	Symbol Technologies, LLC
United States of America	Priority	Granted	Adaptive Standby Access in a Local Area Communication Network	13/537192	2012-06-29	8867342	2014-10-21	Symbol Technologies, LLC
European Patent	Designated PCT	Granted	On-Demand Access Tunnel Between Service Provider Network and Wireless Communication Network	13737051.6	2013-06-26	2873201	2016-09-22	Symbol Technologies, LLC
United States of America	Priority	Granted	On-Demand Access Tunnel Between Service Provider Network and Wireless Communication Network	13/545165	2012-07-10	8934867	2015-01-13	Symbol Technologies, LLC
United States of America	Priority	Granted	Access Point Groupings Bridging Tunneled Traffic for a Communication Network	13/687116	2012-11-28	8842651	2014-09-23	Symbol Technologies, LLC
Canada	Designated PCT	Application	Validating Presence of a Communication Device Using a Wireless Local Area Network	2917002	2014-06-23			Symbol Technologies, LLC
European Patent	Designated PCT	Published	Validating Presence of a Communication Device Using a Wireless Local Area Network	14741722.4	2014-06-23			Symbol Technologies, LLC
United States of America	Priority	Granted	Validating Presence of a Communication Device Using a Wireless Local Area Network	13/929891	2013-06-28	9198034	2015-11-24	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Context Aware Multiple-Input and Multiple-Output Antenna Systems and Methods	14741737.2	2014-06-25			Symbol Technologies, LLC

United States of America	Priority	Granted	Context Aware Multiple-Input and Multiple-Output Antenna Systems and Methods	13/937667	2013-07-09	9065497	2015-06-23	Symbol Technologies, LLC
United States of America	Priority	Published	Private Wireless Communication Network For Guest Users	14/446381	2014-07-30			Symbol Technologies, LLC
Patent Cooperation Treaty	Secondary	Published	Private Wireless Communication Network For Guest Users	PCT/US2015/040301	2015-07-14			Symbol Technologies, LLC
India	Priority	Published	Centralized Controller Architecture for Visible Light Communications (802.15.7) Personal Area Networks	4939/CHE/2012	2012-11-27			Symbol Technologies, LLC
United States of America	Designated PCT	Allowed	Visible Light Communications Personal Area Network Controller and Access Point Systems and Methods	14/647273	2013-11-18			Symbol Technologies, LLC
Belgium	Designated EP	Granted	Improved Wireless Local Area Networks with Plural RF Ports	01106706.3	2001-03-16	1134935	2008-11-05	Symbol Technologies, LLC
Germany (Federal Republic of)	Designated EP	Granted	Improved Wireless Local Area Networks with Plural RF Ports	01106706.3	2001-03-16	60136403.1	2008-11-05	Symbol Technologies, LLC
Finland	Designated EP	Granted	Improved Wireless Local Area Networks with Plural RF Ports	01106706.3	2001-03-16	1134935	2008-11-05	Symbol Technologies, LLC
France	Designated EP	Granted	Improved Wireless Local Area Networks with Plural RF Ports	01106706.3	2001-03-16	1134935	2008-11-05	Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	Improved Wireless Local Area Networks with Plural RF Ports	01106706.3	2001-03-16	1134935	2008-11-05	Symbol Technologies, LLC
Sweden	Designated EP	Granted	Improved Wireless Local Area Networks with Plural RF Ports	01106706.3	2001-03-16	1134935	2008-11-05	Symbol Technologies, LLC
European Patent	Designated PCT	Published	Virtual Wireless Local Area Networks	04708627.7	2004-02-05			Symbol Technologies, LLC

United States of America	Priority	Application	Methods and Systems for Mitigating the Impact of Beamforming on the Accuracy of Wi-Fi Based Location Tracking of Client Devices	14/844151	2015-09-03			Symbol Technologies, LLC
United States of America	Priority	Application	Automatically Grouping, Authenticating and Provisioning Access Points Using Cloud-Based Management of WLAN Infrastructure	14/844064	2015-09-03			Symbol Technologies, LLC
Patent Cooperation Treaty	Secondary	Application	Automatically Grouping, Authenticating and Provisioning Access Points Using Cloud-Based Management of WLAN Infrastructure	PCT/US2016/036321	2016-06-08			Symbol Technologies, LLC
United States of America	Priority	Application	Method of, and Arrangement for, Enhancing Roaming Performance of a Mobile Client that is Roaming Between Access Points Connected to a Distribution System	14/806738	2015-07-23			Symbol Technologies, LLC
India	Priority	Application	Method of, and Arrangement for, Enhancing Scan and Roam Performance Of A Mobile Client By Retrieving Scan And Roam Parameters of Access Points Connected to a Distribution System	2097/DEL/2015	2015-07-10			Symbol Technologies, LLC
Patent Cooperation Treaty	Secondary	Application	Method of, and Arrangement for, Enhancing Scan and Roam Performance of a Mobile Client by Retrieving Scan and Roam Parameters of Access Points Connected to a Distribution System	PCT/US2016/035985	2016-06-06			Symbol Technologies, LLC

India	Priority	Published	Method and Apparatus for Visible Light Communications Personal Area Network (VPAN, IEEE 802.15.7 standard) and WLAN (WirelessLAN, IEEE standard 802.11) Interworking and Mobility Management(across VPAN and WLAN)	4940/CHE/2012	2012-11-27			Symbol Technologies, LLC
United States of America	Designated PCT	Published	Systems and Methods for Visible Light Communications Personal Area Network and Wireless Local Area Network Interworking	14/647176	2013-11-18			Symbol Technologies, LLC
United States of America	Priority	Application	Notification Framework for Access Point Controllers	15/227258	2016-08-03			Symbol Technologies, LLC
United States of America	Priority	Application	Access Point Cloud Controller Auto-Discovery	15/219461	2016-07-26			Symbol Technologies, LLC
United States of America	Priority	Granted	Assisted Measurement Survey of a Wireless Communication System	11/859028	2007-09-21	7885606	2011-02-08	Symbol Technologies, LLC
United States of America	Priority	Granted	Method and Apparatus for Conserving Access Point Power Usage During Low Network Usage Intervals	12/912361	2010-10-26	8699392	2014-04-15	Symbol Technologies, LLC
Belgium	Designated EP	Granted	On-Demand Access Tunnel Between Service Provider Network and Wireless Communication Network	13737051.6	2013-06-26	2873201	2016-09-22	Symbol Technologies, LLC
Belgium	Secondary	Application	Automatically Grouping, Authenticating and Provisioning Access Points Using Cloud-Based Management of WLAN Infrastructure	2016/5660	2016-08-29			Symbol Technologies, LLC

Germany (Federal Republic of)	Designated EP	Granted	On-Demand Access Tunnel Between Service Provider Network and Wireless Communication Network	13737051.6	2013-06-26	2873201	2019-09-22	Symbol Technologies, LLC
France	Designated EP	Granted	On-Demand Access Tunnel Between Service Provider Network and Wireless Communication Network	13737051.6	2013-06-26	2873201	2016-09-22	Symbol Technologies, LLC
France	Secondary	Application	Automatically Grouping, Authenticating and Provisioning Access Points Using Cloud-Based Management of WLAN Infrastructure	1658161	2016-09-02			Symbol Technologies, LLC
United Kingdom	Designated EP	Granted	On-Demand Access Tunnel Between Service Provider Network and Wireless Communication Network	13737051.6	2013-06-26	2873201	2016-09-22	Symbol Technologies, LLC