IEEE P802.11
Wireless LANs

|  |
| --- |
| IEEE 802.11Register of IEE 802.11 LoA requests |
| Date: 2015-11-30 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Adrian Stephens | Intel Corporation |  | +44 1793 404825 | adrian.p.stephens@intel.com |
|  |  |  |  |  |

Abstract

This document contains a register of LoA requests sent by the WG chair in response to “holder” notifications under the IEEE-SA patent policy.

# Introduction

IEEE 802.11 working group participants and members have certain obligations and rights as described under the IEEE Standards Association (IEEE-SA) patent policy. The WG chair also has the obligation to respond to notifications about possible holders of potentially essential patent claims.

This policy is described here: <https://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>.

The patent committee (PatCom) of IEEE-SA has published answers to some frequently asked questions here: <https://standards.ieee.org/faqs/patents.pdf>

This document makes available to participants the status of all requests for LoAs made in IEEE 802.11 since October 2013.

## Format of request sent to patent holder

The full text of emails sent to the patent holder is not reproduced here for brevity.

The request sent by the WG chair to a patent holder can be essentially reconstructed by filling in the information provided below into the template letter provided here: <https://development.standards.ieee.org/myproject/Public/mytools/mob/cover_letter.doc>

## Format of entries

Each entry relates to a single “holder notification”, named after the potentially essential patent holder.

The next level are events related to:

1. The date of a holder notification (if recorded as such)
2. Outgoing LoA request letter
3. Any responses and follow-up reminders
4. Any discovery of an accepted LoA

## Some PatCom FAQ entries

Some of FAQ entries are reproduced below (from the version as approved on 2015-09-01).

**11. When does the IEEE send out a request for a Letter of Assurance?**

The Working Group chair or, where appropriate, the Sponsor chair will send out a request for a Letter of Assurance whenever the chair is notified, at any time and by any means, that the [Proposed] IEEE Standard may require the use of a potential Essential Patent Claim.

**18. How do I find out if a particular company has submitted an Accepted Letter of Assurance?**

Accepted Letters of Assurance are listed on the IEEE-SA’s web site at <http://standards.ieee.org/about/sasb/patcom/patents.html>. Letters of Assurance accepted after 31 December 2006 will be posted on the web site as they are accepted and Letters of Assurance accepted prior to that date will be posted over time.

**64. Can a Working Group chair provide participants with a list of requested LOAs?**

Yes. The Working Group chair should maintain a list of the requests that the chair (or his/her designee) has made and the date of each request. The chair may make this information available to participants in the working group and should make it available to participants upon request.

**65. How does a participant know if a Letter of Assurance has been requested from a particular company?**

A participant may ask the Working Group chair whether he or she has requested an LOA from that company. Accepted Letters of Assurance are available on the IEEE’s web site.

# Open LoA requests

1. Nokia 2015 TGai
	1. Holder notification from 802.11 member received 2015-10-13
	2. Request for LoA
		1. Sent 2015-10-22 to Kalle Moilanen
		2. Project P802.11ai
		3. Cited
			1. Patent application US 2013/0155933 A1
			2. Patent US 8,843,629 B2
2. Blackberry 2015 TGai
	1. Request for LoA
		1. Sent 2015-08-14 to Paul Carpenter
		2. Project P802.11ai
		3. Cited patents owned by Certicom Corporation on the follow topics
			1. ISO/IEC 14888-3:2006, “Information technology – Security techniques – Digital signatures with appendix – Part 3: Discrete logarithm based mechanisms.  Within this standard, P802.11ai uses the Elliptic Curve Digital Signature
			2. Algorithm (ECDSA).  Essential patent claims for ECDSA are declared in ECSDA LoAs:
				1. http://publicaa.ansi.org/sites/apdl/Patent%20Letters/PL337.pdf.pdf
				2. <http://isotc.iso.org/livelink/livelink/fetch/2000/2122/3770791/16231513/1999-09-02_CerticomCorporation_9796-3.pdf?nodeid=16494873&vernum=-2>
			3. IETF RFC 6090, “Fundamental Elliptic Curve Cryptography Algorithms,” Feb. 2011.
				1. <https://datatracker.ietf.org/ipr/search/?draft=&rfc=6090&submit=rfc&doctitle=&group=&holder=&iprtitle=&patent>=
			4. IETF RFC 3279, “Algorithms and Identifiers for the Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile,” Apr. 2002.
				1. <https://datatracker.ietf.org/ipr/2541/>
3. HP 2015 TGai
	1. Request for LoA
		1. Sent 2015-08-14 to Tony McQuinn (Hewlett-Packard Co.)
		2. Project P802.11ai
		3. Cited patent US5848159
			1. in relation to IETF RFC 3447, “Public-Key Cryptography Standards (PKCS) #1: RSA Cryptography Specification Version 2.1.”
4. Microsoft 2015 TGai
	1. Request for LoA
		1. Sent 2014-08-15 to stdsreq@microsoft.com
		2. Project P802.11ai
		3. Cited patents:
			1. US6101499
				1. Related to IETF RFC 4862, “IPv6 Stateless Address Autoconfiguration,”
			2. US6834341, US7085924, US7089415
				1. Related to IETF RFC 6696, “EAP Extensions for the EAP Re-authentication Protocol (ERP),” July 2012.

# Open LoA requests – no further action will be taken

1. Texas A&M University System
	1. Request for LoA
		1. Sent 2014-09-29 to Dr Steven R Garrett
		2. Projects: P802.11n, P802.11ac and P802.11ad
		3. Cited patents:
			1. 8,359,522 Low density parity check decoder for regular LDPC codes
			2. 8,418,023  Low density parity check decoder for irregular LDPC codes
			3. 8,555,140 Low density parity check decoder for irregular LDPC codes
			4. 8,656,250 Low density parity check decoder for regular LDPC codes
			5. 20140181612 - Low density parity check decoder.
	2. Follow-up sent 2014-11-13
	3. Follow-up sent 2015-01-06 to Mr R Bonilla
	4. Telephone conversation 2015-01-22 with Steven Garret. Purpose of the call was to point to where they could obtain information on the IEEE-SA patent process, as they were unfamiliar with how to respond.
	5. No further will be action by the WG chair
		1. They are known to be aware of the notification, and the IEEE-SA process

# Closed LoA requests

1. Broadcom 2014 TGai
	1. Request for LoA
		1. Sent 2014-08-13 to Joseph Lee
		2. Project P802.11ai
		3. Cited Patent application US 13/183,542
	2. Follow-up sent 2014-11-13
	3. Response 2014-11-14 indicates to communicate with Neil Vohra
	4. Follow-up sent 2015-10-22
	5. Response 2015-10-23 from Neil Vohra indicating their intention to send an LoA
	6. Response 2015-10-31 from Neil Vohra indicating that an LoA had been filed
	7. Closed. Accepted Blanket P802.11ai LoA received 2015-10-29
2. Huawei 2013 TGai
	1. Request for LoA
		1. Sent 2013-10-21 to the Director of Licensing (licensing@huawei.com)
		2. Project P802.11ai
		3. Cited patent applications
			1. PCT/CN2013/070263
			2. US 13/669,001
			3. US 13/717,423
			4. US 13/626,482
			5. PCT/CN2013/070125
	2. Accepted blanket LoA for LoA received 2013-08-13
3. Intel P802.11 (REVmc) 2015
	1. Notification received in P802.11 (REVmc) sponsor ballot from voter in a comment.
	2. Request for LoA
		1. Sent 2015-05-04 to standards.licensing@intel.com
		2. Project P802.11 (current revision project)
		3. Cited patent application WO2015041708 (A1)
	3. Closed. Accepted blanked LoA citing P802.11 revision project (PAR approved 2012-08-30) received 2015-07-06.
4. Interdigital 2013 TGai
	1. Request for LoA
		1. Sent 2013-10-22 to Bradley N. Ditty
		2. Acknowledged 2013-10-28
		3. Cited patent applications
			1. US 13/738,589
			2. PCT/US2013/020982
	2. Closed. Three accepted LoAs were received on 2013-10-31
5. LGE 2013
	1. Request for LoA
		1. Sent 2013-10-22 to Soo Lee
		2. Cited patent applications
			1. PCT/KR2012/008220
			2. PCT/KR2012/006820
			3. PCT/KR2012/007271
	2. Response 2013-10-24 from Jason Jeongsoo Lee indicating they had submitted LoAs several months earlier
	3. Closed: Accepted blanket LoA for TGai received 2013-08-14
6. Marvell 2013 TGai
	1. Request for LoA
		1. Sent 2013-10-13 to Horace Ng.
		2. Cited patent application US 13/462,972
	2. Acknowledged 2014-12-02
	3. Follow-up request sent 2014-08-12
	4. Follow-up request sent 2014-11-13
	5. Acknowledged 2014-11-14
	6. Closed: Accepted LoA received 2014-12-05
7. Nokia 2013 TGai
	1. Request for LoA
		1. Sent 2013-10-21 to Moilanen Kalle
		2. Cited
			1. Patent application EP20120183646
			2. Patent US 13/234,463
		3. Acknowledged 2013-10-22
		4. Follow-up request sent 2014-08-12
		5. Nokia responded 2014-08-13: “IPR declaration has not been submitted as the current understanding is that the below mentioned IPR is not essential for IEEE 802.11ai. If we become aware of contrary information Nokia shall submit the IPR declaration accordingly”
		6. Closed 2014-08-13.
8. NTT 2015 TGai
	1. Request for LoA
		1. Sent 2015-10-01 to Kengo Nagata
		2. Project P802.11ai
		3. References ISO/IEC 14888-3:2006, and LoA to ISO by NTT <http://isotc.iso.org/livelink/livelink?func=ll&objId=16494782&objAction=Open&nexturl=%2Flivelink%2Flivelink%3Ffunc%3Dll%26objId%3D16231513%26objAction%3Dbrowse%26viewType%3D1>
	2. Closed. Response 2015-10-26 from Yasuhiko Inoue (NTT) indicating that research in NTT shows that the patents have expired.
9. Qualcomm 2014 TGah
	1. Request for LoA
		1. Sent 2014-01-19 to Fabian Gonell
		2. Project P802.11ah
		3. Citing list of potentially essential patents in letter from Qualcomm to PatCom.
	2. Follow-up request sent 2014-08-12
	3. Follow-up request sent 2014-11-14
	4. Notification from PatCom received 2014-12-03
		1. Contained a copy of a letter from Qualcomm to PatCom sent 2014-12-03 citing claimed potentially essential patents.
	5. A number of documents were received from Qualcomm by PatCom, but none resulted in an accepted LoA.
	6. Letter sent 2015-09-01 by Fabian Gonell to Patcom
		1. Indicates that “all of Qualcomm’s Essential Patent Claims with respect to the 802.11ah Standard are subject to the Accepted Letter of Assurance filed by CSR, plc on March 6, 2009.”
	7. Document posted 2015-09-02 on 802.11 document server by Rolf de Vegt (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/15/11-15-1029-02-00ah-proposed-resolution-for-comments-on-missing-loa.docx>
		2. Embeds the 2015-09-01 letter from Fabian Gonell
	8. Document posted 2015-09-03 on 802.11 document server by Rolf de Vegt (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/15/11-15-1127-01-00ah-response-to-document-1076.docx>
		2. Responds to document 1076r0.
		3. Concludes “The CSR LoA applies to the Qualcomm Essential Patent Claims for 802.11ah.”
	9. Closed
		1. Is is clear to the WG chair that no useful outcome will be gained by sending additional requests for LoA to Qualcomm. This item is thus closed.
10. Renasis 2013 TGai
	1. Request for LoA
		1. Sent 2013-11-11 to Taylor Davis
		2. Project P802.11ai
		3. Cited patent application US 13/183,542
	2. Response 2012-11-11 from Taylor Davis
		1. “I will pass your request to the appropriate person”
	3. Follow-up request sent 2014-08-12
	4. Response 2014-08-12 from Taylor Davis
		1. “It appears that the referenced patent has since been assigned to Broadcom Corporation.  See: <http://assignments.uspto.gov/assignments/q?db=pat&pub=20130016648>.”
	5. Closed: it is clear that no LoA will be forthcoming from this holder.
11. Siemens TGai 2013
	1. Request for LoA
		1. Sent 2013-10-23 to Hans-Joerg Mueller
		2. Project P802.11ai
		3. Cited
			1. Patent application PCT/EP2006/050190
			2. Patent PCT/EP2005/051752
	2. Acknowledged 2013-10-24
	3. Follow-up sent 2014-08-12
	4. Email from PatCom administrator received 2014-08-12
		1. Indicated that an LoA had been accepted
	5. Closed. Accepted blanket LoA on P802.11ai received 2014-05-05