

## Ranking of ETSI patents

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S.No	Patent/Publication No.	International Class (primary)	Assignee	Title	Publication Year	Priority Year(s)	Legal Status	Rank
1	<a href="#">US20090086710A1</a>	H04J000324	Qualcomm Incorporated	Method and apparatus for implementing lte rlc header formats	2009	2007   2008	Docketed New Case - Ready for Examination	3
2	<a href="#">US6694469B1</a>	H04L000116	Qualcomm Incorporated	Method and an apparatus for a quick retransmission of signals in a communication system	2004	2000	Patented Case	4
3	<a href="#">US7542482B2</a>	H04J000324	Qualcomm Incorporated	Method and apparatus for message segmentation in a wireless communication system	2009	2001	Patented Case	4
4	<a href="#">US7876729B1</a>	H04W000400	Qualcomm Incorporated	Intersystem base station handover	2011	1998   1999   2000	Patented Case	4
5	<a href="#">US7904053B2</a>	H04M001104	Qualcomm Incorporated	Method and apparatus for communicating emergency information using wireless devices	2011	2003   2003   2006   2009	Patented Case	4
6	<a href="#">US20090268683A1</a>	H04W007204	Qualcomm Incorporated	Partial radio link control status report	2009	2008   2009	Docketed New Case - Ready for Examination	3
7	<a href="#">US20110090866A1</a>	H04W003600	ALCATEL-LUCENT	Method, user equipment and communication system for inter-rat handover in 3g lte	2011	2008   2008	Docketed New Case - Ready for Examination	2
8	<a href="#">EP2242322A1</a>	H04W008000	ALCATEL-LUCENT	Method for the harq buffer operation	2010	2008   2009   2009	REQUEST FOR EXAMINATION FILED	2
9	<a href="#">EP2291019A1</a>	H04W001610	ALCATEL-LUCENT	Method for harq process allocation of dl semi-persistent scheduling and corresponding system	2011	2008   2008	REQUEST FOR EXAMINATION FILED	2
10	<a href="#">US20110093756A1</a>	H04L000118	ALCATEL-LUCENT	Method for dl semi-persistent scheduling harq process allocation and apparatus thereof	2011	2008   2008	Application Dispatched from Preexam, Not Yet Docketed	2
11	<a href="#">EP2248356A1</a>	H04W000400	ALCATEL-LUCENT	Method, user equipment and communication system for inter-rat handover in 3g lte	2010	2008   2008	REQUEST FOR EXAMINATION FILED	2
12	<a href="#">EP2068505A1</a>	H04L001256	ALCATEL-LUCENT	Method and device for reporting the uplink scheduling request and the emergency status in the wireless networks	2009	2006   2007   2007	REQUEST FOR EXAMINATION FILED	3
13	<a href="#">EP2180627A1</a>	H04L000108	ALCATEL-LUCENT	A communication method and equipment for controlling the data transmission and retransmission of mobile station at the base station	2010	2007   2007	REQUEST FOR EXAMINATION FILED	3
14	<a href="#">US20110029834A1</a>	H04L000118	ALCATEL-LUCENT	Method for operating harq buffer	2011	2008   2009   2009	Docketed New Case - Ready for Examination	2
15	<a href="#">EP1400140A1</a>	H04W000826	Ericsson AB	Handling of temporary identities in mobile	2004	2001   2002	LAPSE BECAUSE OF	5

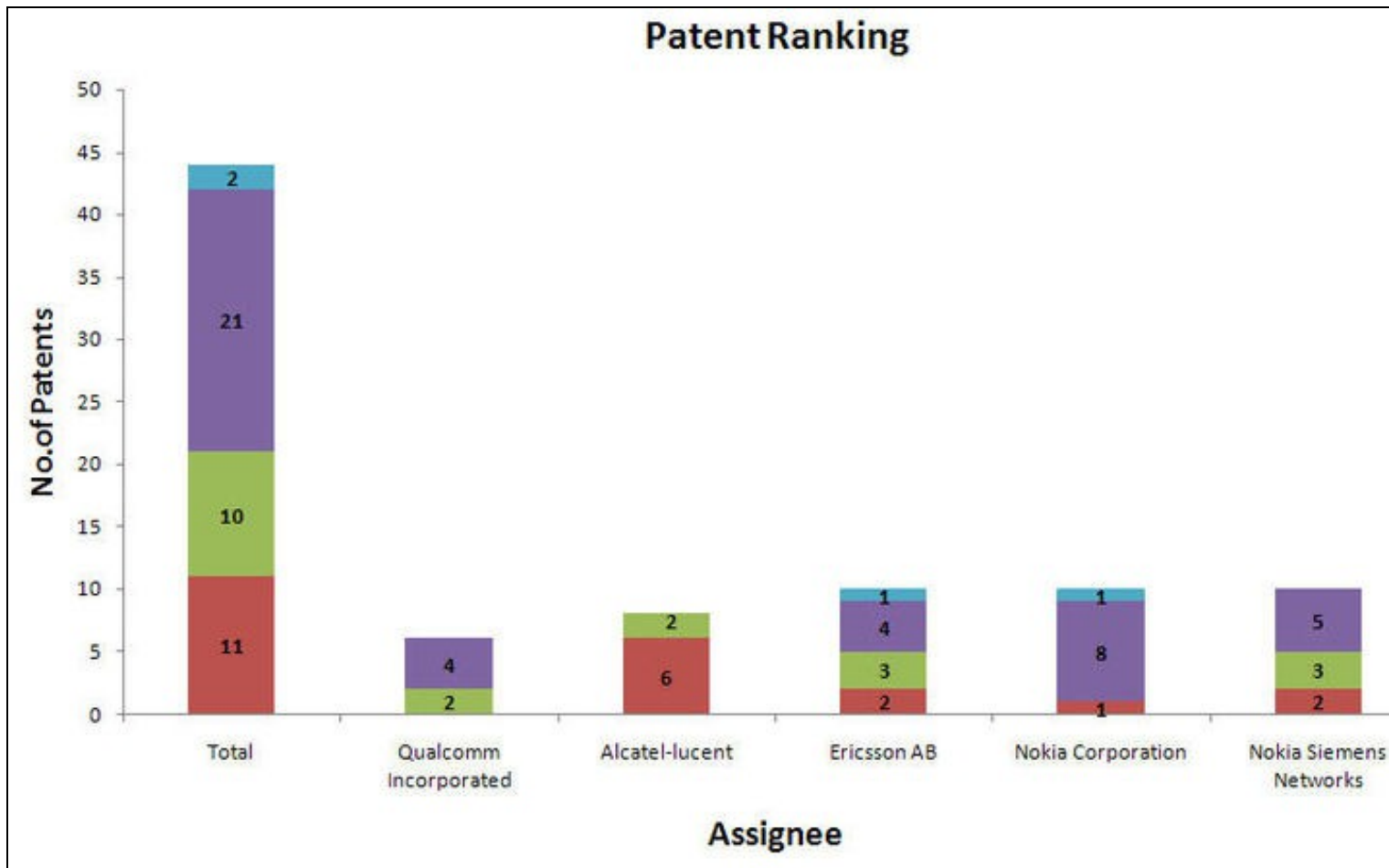
				telephony systems		2002	NON-PAYMENT OF DUE FEES	
16	<a href="#">EP1440599A1</a>	H04W000402	Ericsson AB	Method for checking whether a mobile station supports a location service (lcs) in a packet switched mode	2004	2001   2002   2002	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
17	<a href="#">EP0904665A1</a>	H04L001246	Ericsson AB	method and apparatus for addressing a wireless communication station with a dynamically-assigned address	1999	1996   1997   1997	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
18	<a href="#">EP1177655A1</a>	H04M001700	Ericsson AB	Prepaid subscriber service for packet-switched and circuit-switched radio telecommunications networks	2002	1999   2000   2000	REQUEST FOR EXAMINATION FILED	4
19	<a href="#">EP1961141A2</a>	H04L000100	Ericsson AB	efficient channel quality reporting and link adaptation for multi-carrier broadband wireless communication	2008	2005   2006   2006	REQUEST FOR EXAMINATION FILED	2
20	<a href="#">EP2198533A2</a>	H04B000704	Ericsson AB	Method and arrangements for signaling control information in a communication system	2010	2007   2008   2008	REQUEST FOR EXAMINATION FILED	3
21	<a href="#">EP2220841A1</a>	H04L002906	Ericsson AB	Method and system for correlating aaa sessions	2010	2007   2008   2008	REQUEST FOR EXAMINATION FILED	3
22	<a href="#">EP2248373A1</a>	H04W002818	Ericsson AB	Methods and arrangements for a mobile communications network	2010	2008   2008   2008	REQUEST FOR EXAMINATION FILED	2
23	<a href="#">EP2263411A2</a>	H04W007212	Ericsson AB	Prohibiting unnecessary scheduling requests for uplink grants	2010	2008   2009   2009	REQUEST FOR EXAMINATION FILED	3
24	<a href="#">EP2272269A1</a>	H04W000806	Ericsson AB	Method for context handling	2011	2008   2008   2008	REQUEST FOR EXAMINATION FILED	4
25	<a href="#">US20100182939A1</a>	H04J000300	NOKIA Corporation	Configuration of multi-periodicity semi-persistent scheduling for time division duplex operation in a packet-based wireless communication system	2010	2008   2009	Docketed New Case - Ready for Examination	2
26	<a href="#">US20090305711A1</a>	H04W007200	NOKIA Corporation	Discontinuous transmission/reception in a communications system	2009	2005   2005   2006   2006	Final Rejection Mailed	5
27	<a href="#">US6879690B2</a>	H04L002906	NOKIA Corporation	Method and system for delegation of security procedures to a visited domain	2005	2001   2001	Patented Case	4
28	<a href="#">US20050228893A1</a>	H04L002906	NOKIA Corporation	Method of configuring a mobile node	2005	2004   2004   2005	Response to Non-Final Office Action Entered and Forwarded to Examiner	4
29	<a href="#">US20060195576A1</a>	G06F0015173	NOKIA Corporation	Discontinuous transmission/reception in a communications system	2006	2005	Non Final Action Mailed	4

30	<a href="#">EP1719356A2</a>	H04W006400	NOKIA Corporation	Method and apparatus for reporting location of a mobile terminal	2006	2004 2004 2004	REQUEST FOR EXAMINATION FILED	4
31	<a href="#">EP1608115A1</a>	G10L001914	NOKIA Corporation	Speech transmission between terminals in different networks	2005	1997 1998 1998	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
32	<a href="#">EP0953231A2</a>	H04J000300	NOKIA Corporation	Multiplexing method and transceiver	1999	1997 1998 1998	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
33	<a href="#">EP1121820A1</a>	H04W002818	NOKIA Corporation	Data transmission resources optimization	2001	1998 1999 1999	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
34	<a href="#">EP1192832A1</a>	H04W003608	NOKIA Corporation	A method of selecting a new cell	2002	1999 2000 2000	REQUEST FOR EXAMINATION FILED	4
35	<a href="#">US20080049697A1</a>	H04H000100	Nokia Siemens Networks	Method and radio communication system for transmitting user information as a service to several user stations	2008	2002 2003 2003	Docketed New Case - Ready for Examination	4
36	<a href="#">EP2181559A1</a>	H04W003608	Nokia Siemens Networks	handover of a user equipment with forwarding and reusing a user equipment configuration	2010	2007 2008 2008	REQUEST FOR EXAMINATION FILED	2
37	<a href="#">EP2213034A2</a>	H04L000118	Nokia Siemens Networks	Improved ack/nack dtx detection and signalling of not receiving a downlink allocation grant message	2010	2007 2008 2008 2008	REQUEST FOR EXAMINATION FILED	2
38	<a href="#">EP2250856A1</a>	H04W008400	Nokia Siemens Networks	Server identifier acquisition based on device location	2010	2008 2008	REQUEST FOR EXAMINATION FILED	3
39	<a href="#">EP1090527A1</a>	H04W004812	Nokia Siemens Networks	Method for transmitting organizational information	2001	1998 1999 1999	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
40	<a href="#">EP1030530A2</a>	H04L001256	Nokia Siemens Networks	Method for transmission of packet switched data in a radio communication system	2000	1999 2000	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
41	<a href="#">US20090268844A1</a>	H04L002700	Nokia Siemens Networks	Method and apparatus to link modulating and coding scheme to amount of resources	2009	2008 2008 2008 2009	Docketed New Case - Ready for Examination	3
42	<a href="#">US7215962B2</a>	H04W003614	Nokia Siemens Networks	Method for an intersystem connection handover	2007	2000 2001 2002	Patented Case	4
43	<a href="#">EP1238463A2</a>	H04L000100	Nokia Siemens Networks	Method and system for transmitting data and for determining the transmission properties in a radio communications system	2002	1999 2000 2000	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	4
44	<a href="#">US20100080152A1</a>	H04L002902	Nokia Siemens Networks	Method and apparatus for providing signaling of redundancy versions	2010	2008 2009	Non Final Action Mailed	3

**Disclaimer: Patent ranking has been done according to the following logic:**

- **Rank-1:** Granted + LTE related (claims)
- **Rank-2:** Published + LTE related (claims)
- **Rank-3:** LTE related (Full spec )

- Rank-4: May be relevant and requires further analysis
- Rank-5: Abandoned or Expired



**Note:** Here a total of 44 patents from ETSI have been taken, out of which **Qualcomm Incorporated** has 6 patents, **Alcatel-lucent** has 8 patents, **Ericsson AB**, **Nokia corporation**, **Nokia Siemens Networks** have 10 each

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