

**UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

XIFI NETWORKS R&D, INC.,

Plaintiff,

v.

SAMSUNG ELECTRONICS CO., LTD.
AND SAMSUNG ELECTRONICS
AMERICA, INC.,

Defendants.

Case No. 2:24-cv-01057-JRG

JOINT CLAIM CONSTRUCTION CHART PURSUANT TO P.R. 4-5

Pursuant to Patent Rule 4-5, Plaintiff XiFi Networks R&D, Inc. (“XiFi”) and Defendants Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. (collectively “Samsung”) submit the parties’ Joint Claim Construction Chart, attached hereto as Exhibit A, regarding the patents-in-suit—U.S. Patent Nos. 11,818,591 (“591 patent”), 11,849,337 (“337 patent”), 11,856,414 (“414 patent”), 11,974,143 (“143 patent”), 11,950,105 (“105 patent”), 12,003,976 (“976 patent”), 12,015,933 (“933 patent”), 12,114,177 (“177 patent”), 12,169,756 (“756 patent”), 12,190,198 (“198 patent”), and 12,250,564 (“564 patent”)—along with Exhibit B, which sets forth the full text of the asserted claims containing each disputed claim term/phrase/clause.

Dated: April 15, 2026

By /s/ Matthew L. Woods

Aaron R. Fahrenkrog
MN Bar No. 0386673 (admitted in this District)
Email: afahrenkrog@robinskaplan.com
Logan J. Drew
MN Bar No. 0389449 (admitted in this District)
Email: ldrew@robinskaplan.com
Jessica L. Gutierrez
MN Bar No. 0396359 (*pro hac vice*)
Email: jgutierrez@robinskaplan.com
Matthew L. Woods
MN Bar No. 0205278 (*pro hac vice*)
Nicole R. Olson
MN Bar No. 0402774 (*pro hac vice*)
Email: nolson@robinskaplan.com
David A. Prange
MN Bar No. 0329976 (*pro hac vice*)
Email: dprange@robinskaplan.com
ROBINS KAPLAN LLP
2800 LaSalle Plaza
800 LaSalle Avenue
Minneapolis, MN 55402
Telephone: 612-349-8500
Facsimile: 612-339-4181

Rebecca Bact
MA Bar No. 682411 (*pro hac vice*)
Email: rbact@robinskaplan.com
ROBINS KAPLAN LLP
800 Boylston Street, Suite 2500
Boston, MA 02199
Telephone: (617) 267-2300
Facsimile: (617) 267-8288

Of Counsel:
Andrea L. Fair
Texas State Bar No. 24078488
E-mail: andrea@millerfairhenry.com
Garrett C. Parish
Texas Bar No. 24125824
Email: garrett@millerfairhenry.com
MILLER FAIR HENRY, PLLC
1507 Bill Owens Parkway
Longview, TX 75604
(903) 757-6400 (telephone)
(903) 757-2323 (facsimile)

Counsel for Plaintiff XiFi Networks R&D, Inc.

By /s/ Patrick T. Schmidt

Sean Pak (*pro hac vice*)
QUINN EMANUEL URQUHART & SULLIVAN, LLP
50 California Street, 22nd Floor
San Francisco, CA 94111
Tel: (415) 875-6600
Fax: (415) 875-6700

Kevin Hardy (admitted in this District)
QUINN EMANUEL URQUHART & SULLIVAN, LLP
555 13th Street N.W., Suite 600
Washington, DC 20004
Tel: (202) 538-8000
Fax: (202) 538-8100

Patrick T. Schmidt (*pro hac vice*)
QUINN EMANUEL URQUHART & SULLIVAN, LLP
865 S. Figueroa Street., 10th Floor
Los Angeles, CA 90017
Tel.: (213) 443-3000

Jason C. Williams (admitted in this District)
QUINN EMANUEL URQUHART & SULLIVAN, LLP
295 5th Avenue, 9th Floor,
New York, New York 10016
Tel: (212) 849-7000

Melissa R. Smith
Texas State Bar No. 24001351
melissa@gillamsmithlaw.com
GILLAM & SMITH LLP
303 South Washington Avenue
Marshall, Texas 75670
Phone: (903) 934-8450
Fax: (903) 934-9257

Counsel for Defendants Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the above document was filed electronically on April 15, 2026, in compliance with Local Rule CV-5(a). Therefore, this document was served on all counsel of record who are deemed to have consented to electronic service.

/s/ Matthew L. Woods

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi’s Proposed Construction	Samsung’s Proposed Construction	Court’s Construction
“A wireless networking device, comprising” ’591 patent, claim 1; ’976 patent, claim 1; ’756 patent, claim 1; ’564 patent, claim [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	No construction necessary.	Preamble is limiting.	
“A method of improving the performance of a wireless networking device, comprising the steps of” ’337 patent, claim 1; ’414 patent, claim 1; ’105 patent, claim 1; ’143 patent, claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	No construction necessary.	Preamble is limiting.	
“A method of improving the performance of circuitry, comprising the steps of” ’933 patent, claim 1; ’177 patent, claim 1	No construction necessary.	Preamble is limiting.	

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi's Proposed Construction	Samsung's Proposed Construction	Court's Construction
[The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]			
“A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of” ’198 patent, claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	No construction necessary.	Preamble is limiting.	
“wireless networking device” ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’143 patent, claim 1; ’105 patent, claim 1, 14, 18, 21, 22; ’976 patent, claim 1, 14, 19-22, 25; ’933 patent, claim 1; ’177 patent, claim 1; ’756 patent, claim 1, 15, 17-21, 24-26; ’198 patent, claim 1, 18-19, 25-26; ’564 patent, claim 1, 15. [The full text of the asserted claims containing this claim term	No construction necessary.	“a device that relays or provides network access to another device”	

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi's Proposed Construction	Samsung's Proposed Construction	Court's Construction
is included in Exhibit B, with claim term in bold]			
“different bands of frequencies” / “bands of frequencies being different” / “frequency bands being different from each other” '591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1; '976 patent, claim 1; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1; '198 patent, claim 1; '564 patent, claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	No construction necessary.	“different ranges of frequencies that are defined or allocated by a regulatory or standards body as a band”	
“information regarding the bandwidth availabilities of the first, second, and third wireless transceivers” / “information regarding the bandwidth availabilities of the first and second wireless transceivers”/ “information regarding the first	“information regarding current bandwidth availabilities of the recited wireless transceivers, that can be obtained directly from at least the recited actual PHY interface(s) and the recited actual MAC interface(s)”	“information regarding current bandwidth availabilities of each of the wireless transceivers”	

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi’s Proposed Construction	Samsung’s Proposed Construction	Court’s Construction
and second bandwidth availabilities” ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’143 patent, claim 1; ’105 patent, claim 1; ’976 patent, claim 1; ’933 patent, claim 1; ’177 patent, claim 1; ’756 patent, claim 1; ’198 patent, claim 1; ’564 patent, claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]			
“virtual MAC interface” ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’143 patent, claim 1; ’105 patent, claim 1; ’976 patent, claim 1; ’933 patent, claim 1; ’177 patent, claim 1; ’756 patent, claim 1, 15; ’198 patent, claim 1, 15; ’564 patent, claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	[AGREED]	[AGREED]	“a software- or logical-based interface that is separately addressable from the recited actual MAC interfaces and that obscures the recited actual MAC interfaces from higher protocol stack layers”

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi's Proposed Construction	Samsung's Proposed Construction	Court's Construction
“in a manner transparent to any layer of the wireless networking device above the processing interface” '591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1, 14, 18, 21, 22; '976 patent, claim 1, 14, 19, 21, 25; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 18-19, 25-26; '198 patent, claim 1, 18-19, 25-26; '564 patent, claim 1, 15 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	[AGREED]	[AGREED]	“in a manner where any protocol stack layer of the wireless networking device above the processing interface is unaware of the operation of the processing interface”
“recipient” '591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1, 14, 18, 21, 22; '976 patent, claim 1, 14, 19, 21, 22, 25; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 18, 19, 21, 26; '198	[AGREED]	[AGREED]	Plain and ordinary meaning

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi’s Proposed Construction	Samsung’s Proposed Construction	Court’s Construction
patent, claim 1, 18, 19, 21, 26; '564 patent, claim 1, 15 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]			
“virtual PHY interface” '591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '105 patent, claim 1; '143 patent, claim 1; '976 patent, claim 1; '933 patent, claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	[AGREED]	[AGREED]	Plain and ordinary meaning
“resource monitoring interface” '177 patent claim 1; '756 patent claim 1, 15; '198 patent claim 1, 15; '564 patent claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	[AGREED]	[AGREED]	Plain and ordinary meaning
“do[es] not prevent [other] / [any] wireless networking device[s]	[AGREED]	[AGREED]	Plain and ordinary meaning

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi's Proposed Construction	Samsung's Proposed Construction	Court's Construction
[devices] from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilit[y] / [ies]" '591 patent claim 1; '337 patent claim 1; '414 patent claim 1; '143 patent claim 1; '105 patent claim 1, 18; '976 patent claim 1, 19, 25; '933 patent claim 1; '177 patent claim 1; '564 patent claim 1 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]			
“data stream” '591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1, 14, 18, 21, 22; '976 patent, claim 1, 14, 19, 21, 22, 25; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 18, 19, 24, 26; '198 patent, claim 1, 18, 19, 24, 26; '564 patent, claim 1, 15 [The full text of the asserted claims containing this claim term	[AGREED]	[AGREED]	Plain and ordinary meaning

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi's Proposed Construction	Samsung's Proposed Construction	Court's Construction
is included in Exhibit B, with claim term in bold]			
“wireless transceiver(s) '591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1, 14, 18, 21, 22; '976 patent, claim 1, 14, 19, 21, 22, 25; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 18, 19, 25, 26; '198 patent, claim 1, 18, 19, 25, 26; '564 patent, claim 1, 15 [The full text of the asserted claims containing this claim term is included in Exhibit B, with claim term in bold]	[AGREED]	[AGREED]	“a physical component that wirelessly transmits and receives data”
“without requiring [the] disassociation of the recipient” '337 patent, claim 1; '105 patent, claim 1, 14, 18; '976 patent, claim 1, 14, 19, 25; '933 patent, claim 1; '177 patent, claim 1; '564 patent, claim 1 [The full text of the asserted claims containing this claim term	[AGREED]	[AGREED]	Plain and ordinary meaning

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit A – Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	XiFi's Proposed Construction	Samsung's Proposed Construction	Court's Construction
is included in Exhibit B, with claim term in bold]			

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
“A wireless networking device, comprising” Asserted claims containing this term: ’591 patent, claim 1; ’976 patent, claim 1; ’756 patent, claim 1; ’564 patent, claim 1	<u>Full text of ’591 claims containing this term:</u> 1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface; first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	<u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes.
“A method of improving the performance of a wireless	<u>Full text of the '337 claims containing this term:</u>

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
networking device, comprising the steps of” Asserted claims containing this term: ’337 patent, claim 1; ’414 patent, claim 1; ’105 patent, claim 1; ’143 patent, claim 1	1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes.
“A method of improving the performance of circuitry, comprising the steps of” Asserted claims containing this term: ’933 patent, claim 1; ’177 patent, claim 1	<u>Full text of the ’933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes.
“A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of” Asserted claims containing this term: ’198 patent, claim 1	<u>Full text of the ’198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream.
“wireless networking device” Asserted claims containing this term: ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’143 patent, claim 1; ’105 patent, claim 1, 14, 18, 21, 22; ’976 patent, claim 1, 14, 19-22, 25;	<u>Full text of ’591 claims containing this term:</u> 1. A wireless networking device, comprising: - an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; - first, second, and third actual MAC interfaces connected to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
'933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 15, 17-21, 24-26; '198 patent, claim 1, 18-19, 25-26; '564 patent, claim 1, 15.	first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii)

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes. 21. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The method of claim 21, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to cause the first and second wireless transceivers to at least partially simultaneously receive a second data stream from the recipient. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising:

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes.¹ 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner

¹ Claim 18 of the '976 patent is not currently asserted, but because claim 19 depends therefrom, its text is provided.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transparent to any layer of the wireless networking device above the processing interface, (a) if both the first identified actual bandwidth portions of the first and second wireless transceivers are available for communication, evaluate the data transfer characteristics of both, (b) if the data transfer characteristics of the first identified bandwidth portion of the first wireless transceiver are better than those of the first identified bandwidth portion of the second wireless transceiver, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (c) if the data transfer characteristics of the first identified portion of the second wireless transceiver are better than those of the first identified bandwidth portion of the first wireless transceiver, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 20. The wireless networking device of claim 19, wherein the data transfer characteristics are representative of one or more environmental conditions where the wireless networking device is used.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	21. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The wireless networking device of claim 21, wherein the first data stream is substantially simultaneously transmitted to the recipient from both of the first and second wireless transceivers. 25. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of bandwidth available for communication of the second wireless transceiver, the identified at least one first portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the at least one first identified portions of the first and second wireless transceivers are not unavailable for communication, (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to the given resources of the identified at least one first bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(d) use the second wireless transceiver to receive a second data stream from the recipient at least partially simultaneously with the first data stream being transmitted to the recipient from the first wireless transceiver, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to only the given resources of the identified at least one first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a second wireless bandwidth requirement associated with the second data stream; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the at least one first bandwidth portions of the first and second wireless transceivers does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the first and second wireless transceivers for data transmission or reception purposes at the same time that data is being transmitted from or received by the first and second wireless transceivers. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: - providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 15. The wireless networking device of claim 1, wherein the information provided by the resource monitoring interface to the virtual MAC interface is received by the resource monitoring interface directly from at least one of the first and second actual PHY interfaces. 17. The wireless networking device of claim 1, wherein the allocation decisions involve use of at least some of the first and second bandwidth availabilities. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 20. The wireless networking device of claim 19, wherein the evaluation of the at least one data transfer characteristic comprises evaluation of bandwidth unavailability. 21. The wireless networking device of claim 20, wherein the evaluation of the at least one data transfer characteristic comprises evaluation of bandwidth unavailability and received signal strength of at least one communication from the recipient. 24. The wireless networking device of claim 18, wherein the allocation decisions are based at least upon a signal type associated with the data stream. 25. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate a first identified bandwidth portion of the first wireless transceiver with a first identified bandwidth portion of the second wireless transceiver to at least partially satisfy the bandwidth requirement of the application. 26. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	<u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: - providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and - wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and - the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The method of claim 18, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 25. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate a first identified bandwidth portion of the first wireless transceiver with a first identified portion of the second wireless transceiver to at least partially satisfy the bandwidth requirement of the application. 26. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes. 15. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	interface, aggregate the first and second identified actual bandwidth portions to at least partially simultaneously transmit the first data stream to the first recipient from the first wireless transceiver.
“different bands of frequencies” / “bands of frequencies being different” / “frequency bands being different from each other” Asserted claims containing this term: ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’143 patent, claim 1; ’105 patent, claim 1; ’976 patent, claim 1; ’933 patent, claim 1; ’177 patent, claim 1; ’756 patent, claim 1; ’198 patent, claim 1; ’564 patent, claim 1	<u>Full text of ’591 claims containing this term:</u> 1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface; first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i)

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of:

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: - providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first, second and third actual MAC interfaces to the processing interface; - connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; - respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. <u>Full text of the '564 claims containing this term:</u> 1. wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes.
“information regarding the bandwidth availabilities of the first, second, and third wireless transceivers” / “information regarding the bandwidth availabilities of the first and second wireless transceivers”/ “information regarding the first and second bandwidth availabilities” Asserted claims containing this term:	<u>Full text of '591 claims containing this term:</u> 1. A wireless networking device, comprising: - an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; - first, second, and third actual MAC interfaces connected to the processing interface; - first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
'591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1; '976 patent, claim 1; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1; '198 patent, claim 1; '564 patent, claim 1	area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	<u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of:

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and - wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and - the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: - providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and - wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and - the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
“virtual MAC interface” Asserted claims containing this term: ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’143 patent, claim 1; ’105 patent, claim 1; ’976 patent, claim 1; ’933 patent, claim 1; ’177 patent, claim 1; ’756 patent, claim 1, 15; ’198 patent, claim 1, 15; ’564 patent, claim 1	<u>Full text of ’591 claims containing this term:</u> 1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface; first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	<u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u>

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: - providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first, second and third actual MAC interfaces to the processing interface; - connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; - respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; - forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 15. The wireless networking device of claim 1, wherein the information provided by the resource monitoring interface to the virtual MAC interface is received by the resource monitoring interface directly from at least one of the first and second actual PHY interfaces. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 15. The method of claim 1, wherein the information provided by the resource monitoring interface to the virtual MAC interface is received by the resource monitoring interface directly from at least one of the first and second actual PHY interfaces. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes. 15. The method of claim 1, wherein the information provided by the resource monitoring interface to the virtual MAC interface is received by the resource monitoring interface directly from at least one of the first and second actual PHY interfaces.
“in a manner transparent to any layer of the wireless networking device above the processing interface” Asserted claims containing this term: ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1;	<u>Full text of ’591 claims containing this term:</u> 1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
'143 patent, claim 1; '105 patent, claim 1, 14, 18, 21, 22; '976 patent, claim 1, 14, 19, 21, 25; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 18-19, 25-26; '198 patent, claim 1, 18-19, 25-26; '564 patent, claim 1, 15, 18	first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes. 21. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The method of claim 21, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to cause the first and second wireless transceivers to at least partially simultaneously receive a second data stream from the recipient. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising:

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and (d) wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes.²

² Claim 18 of the '976 patent is not currently asserted, but because claim 19 depends therefrom, its text is provided.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) if both the first identified actual bandwidth portions of the first and second wireless transceivers are available for communication, evaluate the data transfer characteristics of both, (b) if the data transfer characteristics of the first identified bandwidth portion of the first wireless transceiver are better than those of the first identified bandwidth portion of the second wireless transceiver, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (c) if the data transfer characteristics of the first identified portion of the second wireless transceiver are better than those of the first identified bandwidth portion of the first wireless transceiver, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 21. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 25. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of bandwidth available for communication of the second wireless transceiver, the identified at least one first portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the at least one first identified portions of the first and second wireless transceivers are not unavailable for communication, (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to the given resources of the identified at least one first bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (d) use the second wireless transceiver to receive a second data stream from the recipient at least partially simultaneously with the first data stream being transmitted to the recipient from the first wireless transceiver, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to only the given resources of the identified at least one first bandwidth portion of the second wireless transceiver that are not unavailable for communication to

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	thereby at least partially satisfy a second wireless bandwidth requirement associated with the second data stream; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the at least one first bandwidth portions of the first and second wireless transceivers does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the first and second wireless transceivers for data transmission or reception purposes at the same time that data is being transmitted from or received by the first and second wireless transceivers. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: - providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 25. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate a first identified bandwidth portion of the first wireless transceiver with a first identified bandwidth portion of the second wireless transceiver to at least partially satisfy the bandwidth requirement of the application. 26. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: - providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and - wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and - the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The method of claim 18, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 25. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate a first identified bandwidth portion of the first wireless transceiver with a first identified portion of the second wireless transceiver to at least partially satisfy the bandwidth requirement of the application. 26. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	15. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first and second identified actual bandwidth portions to at least partially simultaneously transmit the first data stream to the first recipient from the first wireless transceiver. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, wherein the first identified bandwidth portion of the second wireless transceiver comprises a set of given resources, and (b) aggregate the given resources of the first identified bandwidth portion of the first wireless transceiver that are available for communication with the given resources of the first identified bandwidth portion of the second wireless transceiver that are available for communication to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first identified bandwidth portion is being used.
“recipient”	<u>Full text of '591 claims containing this term:</u>

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
Asserted claims containing this term: '591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1, 14, 18, 21, 22; '976 patent, claim 1, 14, 19, 21, 22, 25; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 18, 19, 21, 26; '198 patent, claim 1, 18, 19, 21, 26; '564 patent, claim 1, 15	1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface; first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u>

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u>

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes. 21. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The method of claim 21, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to cause the first and second wireless transceivers to at least partially simultaneously receive a second data stream from the recipient. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b)

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes.³ 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) if both the first identified actual bandwidth portions of the first and second wireless transceivers are available for communication, evaluate the data transfer characteristics of both, (b) if the data transfer characteristics of the first identified bandwidth portion of the first wireless transceiver are better than those of the first identified bandwidth portion of the second wireless transceiver, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (c) if the data transfer characteristics of the first identified portion of the second wireless transceiver are better than those of the first identified bandwidth portion of the first wireless transceiver, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the

³ Claim 18 of the '976 patent is not currently asserted, but because claim 19 depends therefrom, its text is provided.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 21. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The wireless networking device of claim 21, wherein the first data stream is substantially simultaneously transmitted to the recipient from both of the first and second wireless transceivers. 25. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of bandwidth available for communication of the second wireless transceiver, the identified at least one first portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the at least one first identified portions of the first and second wireless transceivers are not unavailable for communication, (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to the given resources of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	identified at least one first bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (d) use the second wireless transceiver to receive a second data stream from the recipient at least partially simultaneously with the first data stream being transmitted to the recipient from the first wireless transceiver, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to only the given resources of the identified at least one first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a second wireless bandwidth requirement associated with the second data stream; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the at least one first bandwidth portions of the first and second wireless transceivers does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the first and second wireless transceivers for data transmission or reception purposes at the same time that data is being transmitted from or received by the first and second wireless transceivers. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: - providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first, second and third actual MAC interfaces to the processing interface; - connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; - respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; - forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 21. The wireless networking device of claim 20, wherein the evaluation of the at least one data transfer characteristic comprises evaluation of bandwidth unavailability and received signal strength of at least one communication from the recipient. 26. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The method of claim 18, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	21. The method of claim 20, wherein the evaluation of the at least one data transfer characteristic comprises evaluation of bandwidth unavailability and received signal strength of at least one communication from the recipient. 26. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes. 15. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first and second identified actual bandwidth portions to at least partially simultaneously transmit the first data stream to the first recipient from the first wireless transceiver.
“virtual PHY interface” Asserted claims containing this term: ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’105 patent, claim 1; ’143 patent, claim 1; ’976 patent, claim 1; ’933 patent, claim 1	<u>Full text of ’591 claims containing this term:</u> 1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface; first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	<u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; - at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes.
“resource monitoring interface”	<u>Full text of the '177 claims containing this term:</u>

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
Asserted claims containing this term: '177 patent claim 1; '756 patent claim 1, 15; '198 patent claim 1, 15; '564 patent claim 1	1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 15. The wireless networking device of claim 1, wherein the information provided by the resource monitoring interface to the virtual MAC interface is received by the resource monitoring interface directly from at least one of the first and second actual PHY interfaces. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 15. The method of claim 1, wherein the information provided by the resource monitoring interface to the virtual MAC interface is received by the resource monitoring interface directly from at least one of the first and second actual PHY interfaces. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes.
“do[es] not prevent [other] / [any] wireless networking device[s] [devices] from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilit[y] / [ies]” Asserted claims containing this term: '591 patent claim 1; '337 patent claim 1; '414 patent claim 1; '143 patent claim 1; '105 patent claim 1, 18; '976 patent claim 1, 19, 25; '933 patent claim 1; '177 patent claim 1; '564 patent claim 1	<u>Full text of '591 claims containing this term:</u> 1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface; first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	<u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; - associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; - at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes.⁴ 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) if both the first identified actual bandwidth portions of the first and second wireless transceivers are available for communication, evaluate the data transfer characteristics of both,

⁴ Claim 18 of the '976 patent is not currently asserted, but because claim 19 depends therefrom, its text is provided.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) if the data transfer characteristics of the first identified bandwidth portion of the first wireless transceiver are better than those of the first identified bandwidth portion of the second wireless transceiver, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (c) if the data transfer characteristics of the first identified portion of the second wireless transceiver are better than those of the first identified bandwidth portion of the first wireless transceiver, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 25. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of bandwidth available for communication of the second wireless transceiver, the identified at least one first portion of the second wireless transceiver comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) evaluate whether any of the given resources of the at least one first identified portions of the first and second wireless transceivers are not unavailable for communication, (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to the given resources of the identified at least one first bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (d) use the second wireless transceiver to receive a second data stream from the recipient at least partially simultaneously with the first data stream being transmitted to the recipient from the first wireless transceiver, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to only the given resources of the identified at least one first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a second wireless bandwidth requirement associated with the second data stream; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the at least one first bandwidth portions of the first and second wireless transceivers does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the first and second wireless transceivers for data transmission or reception purposes at the same time that data is being transmitted from or received by the first and second wireless transceivers. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of:

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes.
“data stream” Asserted claims containing this term: ’591 patent, claim 1; ’337 patent, claim 1; ’414 patent, claim 1; ’143 patent, claim 1; ’105 patent, claim 1, 14, 18, 21, 22; ’976 patent, claim 1, 14, 19, 21, 22, 25; ’933 patent, claim 1; ’177 patent, claim 1; ’756 patent, claim 1, 18,	<u>Full text of ’591 claims containing this term:</u> 1. A wireless networking device, comprising: - an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; - first, second, and third actual MAC interfaces connected to the processing interface; - first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
19, 24, 26; '198 patent, claim 1, 18, 19, 24, 26; '564 patent, claim 1, 15	associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	14. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes. 21. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The method of claim 21, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to cause the first and second wireless transceivers to at least partially simultaneously receive a second data stream from the recipient. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes.⁵ 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface,

⁵ Claim 18 of the '976 patent is not currently asserted, but because claim 19 depends therefrom, its text is provided.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) if both the first identified actual bandwidth portions of the first and second wireless transceivers are available for communication, evaluate the data transfer characteristics of both, (b) if the data transfer characteristics of the first identified bandwidth portion of the first wireless transceiver are better than those of the first identified bandwidth portion of the second wireless transceiver, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (c) if the data transfer characteristics of the first identified portion of the second wireless transceiver are better than those of the first identified bandwidth portion of the first wireless transceiver, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 21. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	22. The wireless networking device of claim 21, wherein the first data stream is substantially simultaneously transmitted to the recipient from both of the first and second wireless transceivers. 23. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of bandwidth available for communication of the second wireless transceiver, the identified at least one first portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the at least one first identified portions of the first and second wireless transceivers are not unavailable for communication, (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to the given resources of the identified at least one first bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (d) use the second wireless transceiver to receive a second data stream from the recipient at least partially simultaneously with the first data stream being transmitted to the recipient from the first wireless transceiver, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to only the given resources of the identified at least one first bandwidth portion of the second wireless transceiver that are not

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	unavailable for communication to thereby at least partially satisfy a second wireless bandwidth requirement associated with the second data stream; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the at least one first bandwidth portions of the first and second wireless transceivers does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the first and second wireless transceivers for data transmission or reception purposes at the same time that data is being transmitted from or received by the first and second wireless transceivers. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: - providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 24. The wireless networking device of claim 18, wherein the allocation decisions are based at least upon a signal type associated with the data stream. 26. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of:

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The method of claim 18, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 24. The method of claim 18, wherein the allocation decisions are based at least upon a signal type associated with the data stream. 26. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes. 15. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first and second identified actual bandwidth portions to at least partially simultaneously transmit the first data stream to the first recipient from the first wireless transceiver.
“wireless transceiver(s)” Asserted claims containing this term:	<u>Full text of '591 claims containing this term:</u> 1. A wireless networking device, comprising: an application interface connected to a processing interface, the application interface being associated with a first application, the first application providing, when the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
'591 patent, claim 1; '337 patent, claim 1; '414 patent, claim 1; '143 patent, claim 1; '105 patent, claim 1, 14, 18, 21, 22; '976 patent, claim 1, 14, 19, 21, 22, 25; '933 patent, claim 1; '177 patent, claim 1; '756 patent, claim 1, 18, 19, 25, 26; '198 patent, claim 1, 18, 19, 25, 26; '564 patent, claim 1, 15	wireless networking device is being used, provides a first data stream and having a first wireless bandwidth requirement; first, second, and third actual MAC interfaces connected to the processing interface; first, second, and third actual PHY interfaces connected to the first, second, and third actual MAC interfaces; first, second, and third wireless transceivers respectively associated with the first, second, and third actual PHY interfaces, wherein each one of the first, second, and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second, and third bandwidth availability up to a first, second, and third actual bandwidth, and (iii) is adapted to emit radio waves in first, second, and third different bands of frequencies, the second, and third frequency bands both being higher in frequency than the first frequency band; wherein the processing interface comprises (i) at least one virtual MAC interface and (ii) first, second, and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second, and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless network device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first, second, and third bandwidths of the first, second, and third wireless transceivers that are available for communication, and (ii) evaluate the identified bandwidth availabilities of the first, second, and third wireless transceivers with respect to the first bandwidth requirement of the first application;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of a selected two transceivers of the first, second, and third wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both the selected transceivers of the first, second, and third wireless transceivers using a specific subset of frequencies corresponding to the identified portions of their available bandwidth and causing the prepared first data to be transmitted from the selected two transceivers of the first, second, and third wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first, second, and third wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first, second, and third wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected one of the first, second, and third wireless transceivers. <u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '414 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each one of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to a first and second actual bandwidth, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; - forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (b) (i) identify at least one portion of each one of the first and second bandwidth availabilities of the first and second wireless transceivers, and (ii) evaluate the identified bandwidth availabilities of the first and second wireless transceivers with respect to the first bandwidth requirement of the first application; wherein, if the first bandwidth requirement is at least partially satisfied by the bandwidth availabilities of the first and second wireless transceivers, preparing the first data stream for simultaneous transmission to the recipient from both of the first and second wireless transceivers using a specific subset of frequencies corresponding to the identified at least one portions of their available bandwidth and causing the prepared first data stream to be transmitted from the first and second wireless transceivers to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the first and second wireless transceivers does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first and second wireless transceivers for data transmission purposes at the same time that processed data is being sent from the first and second wireless transceivers. <u>Full text of the '143 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of:

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; associating first, second and third wireless transceivers respectively with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (iii) is adapted to emit radio waves in first, second and third bands of frequencies, the first and second frequency bands being different from each other; forming in the processing interface (i) at least one virtual MAC interface and (ii) first, second and third virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) respectively request or create first, second and third associations between a first recipient and the first, second and third actual MAC and PHY interfaces, (ii) identify at least a portion of bandwidth available for communication of a first selected wireless transceiver of the first, second and third wireless transceivers, (iii) prepare the first data stream for transmission to the first recipient from the first selected wireless transceiver using a specific subset of frequencies corresponding to the identified portion of the available bandwidth of the first selected wireless transceiver, and (iv) cause the prepared first data stream to be transmitted from the first selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least a portion of bandwidth available for communication of a second selected wireless transceiver of the first, second and third wireless transceivers to receive a data stream transmitted from a second recipient, (ii) receive the data stream transmitted to the wireless networking device from the second recipient utilizing a specific subset of frequencies corresponding to the identified portion of the bandwidth available for communication of the second selected wireless transceiver; wherein the transmission of the first data stream to the first recipient occurs at least partially simultaneously with the reception of the data stream transmitted from the second recipient; wherein the wireless networking device's utilization of the available bandwidth of the first selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first selected wireless transceiver for data transmission or reception purposes at the same time that data is being sent from the first selected wireless transceiver; and wherein the wireless networking device's utilization of the available bandwidth of the second selected wireless transceiver does not prevent other wireless networking devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second selected wireless transceiver for data transmission or reception purposes at the same time that data is being received by the second selected wireless transceiver. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes. 21. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The method of claim 21, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to cause the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second wireless transceivers to at least partially simultaneously receive a second data stream from the recipient. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	availability of the second wireless transceiver for data transmission or reception purposes.⁶ 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) if both the first identified actual bandwidth portions of the first and second wireless transceivers are available for communication, evaluate the data transfer characteristics of both, (b) if the data transfer characteristics of the first identified bandwidth portion of the first wireless transceiver are better than those of the first identified bandwidth portion of the second wireless transceiver, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (c) if the data transfer characteristics of the first identified portion of the second wireless transceiver are better than those of the first identified bandwidth portion of the first wireless transceiver, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the second wireless transceiver that are not

⁶ Claim 18 of the '976 patent is not currently asserted, but because claim 19 depends therefrom, its text is provided.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 21. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first identified actual bandwidth portion of the first wireless transceiver with an identified first portion of an available bandwidth of the second wireless transceiver to at least partially simultaneously transmit the first data stream to the first recipient from both of the first and second wireless transceivers. 22. The wireless networking device of claim 21, wherein the first data stream is substantially simultaneously transmitted to the recipient from both of the first and second wireless transceivers. 25. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of bandwidth available for communication of the second wireless transceiver, the identified at least one first portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the at least one first identified portions of the first and second wireless transceivers are not unavailable for communication, (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to the given

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	resources of the identified at least one first bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (d) use the second wireless transceiver to receive a second data stream from the recipient at least partially simultaneously with the first data stream being transmitted to the recipient from the first wireless transceiver, without requiring disassociation of either or both of the first and second associations, using a specific subset of frequencies corresponding to only the given resources of the identified at least one first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a second wireless bandwidth requirement associated with the second data stream; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the at least one first bandwidth portions of the first and second wireless transceivers does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the first and second wireless transceivers for data transmission or reception purposes at the same time that data is being transmitted from or received by the first and second wireless transceivers. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '756 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 25. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate a first identified bandwidth portion of the first wireless transceiver with a first identified bandwidth portion of the second wireless transceiver to at least partially satisfy the bandwidth requirement of the application. 26. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '198 claims containing this term:</u> 1. A method for improving the operation of circuitry that is adapted to be used in a wireless networking device, the method comprising the steps of: providing a processing interface configured to, during use of the wireless networking device, interact with an application providing a data stream and having a wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; respectively connecting first and second actual PHY interfaces to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein the first and second wireless transceivers (i) are suitable for use in a wireless local area network, (ii) respectively have first and second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	bandwidth availabilities up to first and second actual bandwidths, and (iii) are adapted to respectively emit radio waves in first and second different bands of frequencies; and wherein the processing interface comprises, at least one virtual MAC interface, at least one resource monitoring interface that, after the circuitry has been connected to the wireless networking device and during operation of the wireless networking device, provides information regarding the first and second bandwidth availabilities to the virtual MAC interface, and the virtual MAC interface being configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) request or create a first association between a recipient and the first actual MAC and PHY interfaces and a second association between the recipient and the second actual MAC and PHY interfaces, and (ii) use the information provided to it by the resource monitoring interface to make allocation decisions with respect to first and second bandwidth availabilities to at least partially satisfy the bandwidth requirement of the data stream. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of the actual bandwidth of one of the first and second wireless transceivers, the identified bandwidth portion comprising a set of given resources, and (ii) transmit the data stream to the recipient using only the given resources of the identified bandwidth portion that are not unavailable to thereby at least partially satisfy the bandwidth requirement. 19. The method of claim 18, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, (i) evaluate at least one data transfer characteristic of a first identified bandwidth portion of each of the first and second

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	wireless transceivers, and (ii) transmit the data stream to the recipient using the first identified bandwidth portion of either the first or second wireless transceiver based upon a comparison of the evaluated data transfer characteristics. 25. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate a first identified bandwidth portion of the first wireless transceiver with a first identified portion of the second wireless transceiver to at least partially satisfy the bandwidth requirement of the application. 26. The method of claim 18, wherein the processing interface is configured to, wherein the processing interface is configured to, after the circuitry has been connected to the wireless networking device, during use of the wireless networking device and in a manner transparent to any layer of the wireless networking device above the processing interface, transmit the data stream to the recipient using the first wireless transceiver and to receive a second data stream that is transmitted from the recipient using the second transceiver. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; first and second actual MAC interfaces connected to the processing interface; first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces;

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes. 15. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, in a manner transparent to any layer of the wireless networking device above the processing interface, aggregate the first and second identified actual bandwidth portions to at least partially simultaneously transmit the first data stream to the first recipient from the first wireless transceiver.
“without requiring [the] disassociation of the recipient” Asserted claims containing this term:	<u>Full text of the '337 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
'337 patent, claim 1; '105 patent, claim 1, 14, 18; '976 patent, claim 1, 14, 19, 25; '933 patent, claim 1; '177 patent, claim 1; '564 patent, claim 1	wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers (i) is suitable for use in a wireless local area network, (ii) has a first and second bandwidth availability up to first and second actual bandwidths, and (iii) is adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used in a manner transparent to any layer of the wireless networking device above the processing interface, (i) identify at least one portion of each one of the first and second actual bandwidths of the first and second wireless transceivers that are available for communication, (ii) select one transceiver of the first and second transceivers which has the most bandwidth available, (iii) prepare the first data stream for transmission to a recipient from the selected wireless transceiver using a specific subset of frequencies corresponding to the identified at least one portion of its available bandwidth, and (iv) cause the prepared first data stream to be transmitted from the selected wireless transceiver to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; wherein, if the unselected wireless transceiver has more bandwidth availability than the selected transceiver during use of the wireless networking device, the processing interface is adapted to, as a result of the increased bandwidth availability and in a manner transparent to any layer of the wireless networking device above the processing

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	interface, (i) identify at least one portion of the bandwidth of the unselected transceiver that is available for communication and select the unselected transceiver, (ii) prepare the first data stream, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, for transmission to the recipient from the unselected transceiver using a specific subset of frequencies corresponding to its identified at least one portion of available bandwidth, and (iii) cause the prepared first data stream to be transmitted to the recipient from the unselected transceiver, without requiring the disassociation of the recipient from the actual MAC and PHY interfaces of any wireless transceiver, to thereby continue to at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the available bandwidth of the selected and unselected transceivers does not prevent other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availabilities of the selected and unselected wireless transceivers for data transmission purposes at the same time that processed data is being sent from the selected and unselected wireless transceivers. <u>Full text of the '105 claims containing this term:</u> 1. A method of improving the performance of a wireless networking device, comprising the steps of: - connecting an application interface to a processing interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - connecting first and second actual MAC interfaces to the processing interface; - connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; - respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	14. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The method of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	second actual MAC and PHY interfaces, using a subset of frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes. <u>Full text of the '976 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; - at least one virtual MAC interface and first and second virtual PHY interfaces formed in the processing interface that, during operation of the wireless networking device, feed

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. 14. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one second portion of the first actual bandwidth of the first wireless transceiver, the identified second bandwidth portion comprising a set of given

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	resources, the first and second identified actual bandwidth portions not being contiguous with each other, (b) evaluate whether any of the given resources of the second identified actual bandwidth portion are unavailable for communication, and (c) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first and second bandwidth portions that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. 18. The wireless networking device of claim 1, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the first identified portion of the second wireless transceiver comprising a set of given resources, (b) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (c) if none of the given resources of the first identified bandwidth portion of the first wireless transceiver are available for communication and if the first identified bandwidth portion of the second wireless transceiver is available for communication, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	frequencies corresponding only to the given resources of the first identified actual bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, when the wireless networking device is being used, the wireless networking device's utilization of the first identified actual bandwidth portion of the second wireless transceiver does not prevent any other wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes.⁷ 19. The wireless networking device of claim 18, wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) if both the first identified actual bandwidth portions of the first and second wireless transceivers are available for communication, evaluate the data transfer characteristics of both, (b) if the data transfer characteristics of the first identified bandwidth portion of the first wireless transceiver are better than those of the first identified bandwidth portion of the second wireless transceiver, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the first wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and

⁷ Claim 18 of the '976 patent is not currently asserted, but because claim 19 depends therefrom, its text is provided.

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(c) if the data transfer characteristics of the first identified portion of the second wireless transceiver are better than those of the first identified bandwidth portion of the first wireless transceiver, use the second wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application. <u>Full text of the '933 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first and second actual MAC interfaces to the processing interface; connecting first and second actual PHY interfaces respectively to the first and second actual MAC interfaces; respectively associating first and second wireless transceivers with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio signals in first and second different bands of frequencies; forming in the processing interface (i) at least one virtual MAC interface and (ii) first and second virtual PHY interfaces that, after the circuitry has been connected to the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	application interface and during operation of the wireless networking device, feed information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources, (c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, and (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device devices from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes. <u>Full text of the '177 claims containing this term:</u> 1. A method of improving the performance of circuitry, comprising the steps of: providing a processing interface that is adapted to be connected to an application interface of a wireless networking device, the application interface being associated

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	with a first application, the first application providing, after the circuitry has been connected to the application interface and when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; connecting first, second and third actual MAC interfaces to the processing interface; connecting first, second and third actual PHY interfaces respectively to the first, second and third actual MAC interfaces; respectively associating first, second and third wireless transceivers with the first, second and third actual PHY interfaces, wherein each of the first, second and third wireless transceivers is suitable for use in a wireless local area network, and the first, second and third wireless transceivers, respectively, (i) have a first, second and third bandwidth availability up to first, second and third actual bandwidths, and (ii) are adapted to emit radio signals in first, second and third bands of frequencies, at least two of the first, second and third bands of frequencies being different; forming in the processing interface (i) at least one virtual MAC interface and (ii) at least one resource monitoring interface that, after the circuitry has been connected to the application interface and during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first, second and third wireless transceivers back to the at least one virtual MAC interface; wherein the processing interface is configured to, after the circuitry has been connected to the application interface and when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface, (a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces, (ii) a second association between the recipient and the second actual MAC and PHY interfaces, and (iii) a third association between the recipient and the third actual MAC and PHY interfaces, (b) identify at least one first portion of the first actual bandwidth of the first wireless transceiver, the identified at least one first portion comprising a set of given resources,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(c) evaluate whether any of the given resources of the first identified actual bandwidth portion are unavailable for communication, (d) use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion that are not unavailable for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application; (e) identify at least one first portion of the second actual bandwidth of the second wireless transceiver, the identified at least one first portion of the second actual bandwidth of the second wireless transceiver comprising a set of given resources, (f) evaluate whether any of the given resources of the first identified actual bandwidth portion of the second wireless transceiver are unavailable for communication, and (g) use the second wireless transceiver to receive a second data stream from the recipient, without requiring disassociation of the recipient from any of the first, second and third actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first bandwidth portion of the second wireless transceiver that are not unavailable for communication to thereby at least partially satisfy a wireless bandwidth requirement associated with the second data stream; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the first available bandwidth portion of the first wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data transmission purposes; and wherein, after the circuitry has been connected to the application interface and when the wireless networking is being used, the wireless networking device's utilization of the

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	first available bandwidth portion of the second wireless transceiver does not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the second wireless transceiver for data transmission or reception purposes at the same time that the first bandwidth portion is being used for data reception purposes. <u>Full text of the '564 claims containing this term:</u> 1. A wireless networking device, comprising: - a processing interface that is connected to an application interface, the application interface being associated with a first application, the first application providing, when the wireless networking device is being used, a first data stream and having a first wireless bandwidth requirement; - first and second actual MAC interfaces connected to the processing interface; - first and second actual PHY interfaces respectively connected to the first and second actual MAC interfaces; - first and second wireless transceivers respectively associated with the first and second actual PHY interfaces, wherein each of the first and second wireless transceivers is suitable for use in a wireless local area network, and the first and second wireless transceivers, respectively, (i) have a first and second bandwidth availability up to first and second actual bandwidths, and (ii) are adapted to emit radio waves in first and second different bands of frequencies; - at least one virtual MAC interface and at least one resource monitoring interface formed in the processing interface that, during operation of the wireless networking device, feeds information regarding the bandwidth availabilities of the first and second wireless transceivers back to the at least one virtual MAC interface; - wherein the processing interface is configured to, when the wireless networking device is being used, and in a manner transparent to any layer of the wireless networking device above the processing interface,

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	(a) request or create (i) a first association between a recipient and the first actual MAC and PHY interfaces and (ii) a second association between the recipient and the second actual MAC and PHY interfaces, (b) identify at least one first and second portions of the first actual bandwidth of the first wireless transceiver, each one of the first and second identified bandwidth portions each having a set of given resources, (c) evaluate the data transfer characteristics of the given resources of both the first and second identified bandwidth portions, (d) if the data transfer characteristics of the first identified bandwidth portion are better than those of the second identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the first identified bandwidth portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and (e) if the data transfer characteristics of the second identified bandwidth portion are better than those of the first identified bandwidth portion, use the first wireless transceiver to transmit the first data stream to the recipient, without requiring disassociation of the recipient from either or both of the first and second actual MAC and PHY interfaces, using a subset of frequencies corresponding to only the given resources of the second identified bandwidth the portion that are available for communication to thereby at least partially satisfy the first wireless bandwidth requirement of the first application, and wherein, when the wireless networking is being used, the wireless networking device's utilization of the first and second identified bandwidth portions do not prevent any wireless networking device from utilizing a range of frequencies corresponding to the remaining portion of the bandwidth availability of the first wireless transceiver for data

XiFi Networks R&D, Inc. v. Samsung Electronics Co., Ltd., et al., Case No. 2:24-cv-01057-JRG

Exhibit B – Full Text of Relevant Asserted Claims for Joint Claim Construction Chart Pursuant to Patent Rule 4-5

Claim Term/Phrase/Clause	Full Text of Asserted Claims Containing Term/Phrase/Clause
	transmission or reception purposes at the same time that the first or second identified bandwidth portions are being used for data transmission purposes.