

U.S. Patent No. 10,848,398 – Claim Listing

Claim No.	Claim Language
1[pre]	A method for improving performance of one or more communication units, the method comprising:
1[a]	receiving, by a server, from network monitoring devices that monitor, in real-time, data associated with an operation of two or more communication units located in different geographical areas, the data comprising a parameter;
1[b]	processing, by the server, at least one of the data and historical data;
1[c]	based on the processed data, determining a policy for at least one of the two or more communication units; and
1[d]	in response to the server detecting interference or noise from nearby wireless channels, determining that packets will be lost regardless of rate selection and,
1[e]	otherwise, communicating the policy to at least one or more communication units that implement one or more algorithms that use the parameter and at least a rule or a condition for the one or more communication units to improve a performance of the one or more communication units.
2	The method of claim 1, wherein the data further comprises determining a received signal strength indication.
3	The method of claim 1, further comprising, based on a change in the operation, updating the policy.
4	The method of claim 3, wherein updating the policy comprises updating the parameter.
5	The method of claim 1, wherein determining the policy comprises selecting the policy from a set of policies that are stored on the one or more communication units.
6	The method of claim 1, wherein the one or more communication units comprise at least one of: an access point (AP); a base station; a wireless LAN device; a DSLAM; a gateway; a performance enhancement device; a Digital Subscriber Line (DSL) Customer Premises Equipment (CPE) modem; an in-home powerline device; a Home Phoneline Network Alliance (HPNA) based device; an in-home coax distribution device; a G.hn (Global Home Networking Standard) compatible device; an in-home metering communication

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	device; an in-home appliance communicatively interfaced with the LAN; a wireless femtocell base station; a wireless WiFi compatible base station; a wireless mobile device repeater; a wireless mobile device base station; a set-top box (STB)/set-top unit (STU) customer electronics device; an Internet Protocol (IP) enabled television; an IP enabled media player; an IP enabled gaming console; an Ethernet gateway; a computing device connected to the LAN; an Ethernet connected computer peripheral device; an Ethernet connected router; an Ethernet connected wireless bridge; an Ethernet connected network bridge; or an Ethernet connected network switch.
7	The method of claim 1, wherein processing comprises storing at least one of the data and historical data in a memory.
8	The method of claim 1, wherein the data further comprises time-varying data.
9	The method of claim 1, wherein the server performs an analysis of at least one of the data and historical data.
10	The method of claim 9, wherein the analysis comprises a statistical analysis of at least one of the data and historical data.
11[pre]	A non-transitory machine-readable storage medium having computer executable instructions stored thereon that when executed cause a processor of a server to perform a method for improving performance of one or more communication units, the method comprising:
11[a]	receiving from network monitoring devices that monitor, in real-time, data associated with an operation of two or more communication units located in different geographical areas, the data comprising a parameter;
11[b]	processing at least one of the data and historical data;
11[c]	determining by the server, a policy for each of the one or more communication units, based on the processed data; and
11[d]	in response to the server detecting the absence of an interference or noise from nearby wireless channels, determining that packets will be lost regardless of rate selection and,
11[e]	otherwise, communicating the policy to two or more communication units that implement one or more algorithms based on at least a rule

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	or a condition to improve a performance of the one or more communication units.
12	The non-transitory machine-readable storage medium of claim 11, wherein processing comprises storing at least one of the data and the historical data in a memory device.
13	The non-transitory machine-readable storage medium of claim 11, wherein determining the policy comprises determining a condition for communicating the policy.
14	The non-transitory machine-readable storage medium of claim 11, wherein the data further comprises determining a received signal strength.
15	The non-transitory machine-readable storage medium of claim 11, further comprising updating the parameter based on a change in the operation to update the policy.
16	The non-transitory machine-readable storage medium of claim 11, wherein determining the policy comprises selecting the policy from a set of policies.
17	The method of claim 11, wherein the data further comprises time-varying data.
18	The method of claim 11, wherein the server performs an analysis of at least one of the data and historical data.
19	The method of claim 18, wherein the analysis comprises a statistical analysis of at least one of the data and historical data.
20[pre]	An apparatus comprising:
20[a]	a memory; and
20[b]	a processor, coupled to the memory, and operable to:
20[c]	receive, from network monitoring devices that monitor, in real-time, data associated with an operation of two or more communication units located in different geographical areas, the data comprising a parameter;
20[d]	analyze at least one of the data and historical data;
20[e]	based on the analyzed data, determine a policy for at least one of the two or more communication units; and
20[f]	in response to a server detecting the absence of an interference or noise from nearby wireless channels, determining that packets will be lost regardless of rate selection and, otherwise, communicate the policy to at least one or more communication units that implement

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	one or more algorithms based on at least a rule or a condition to improve a performance of the one or more communication units.
21	The apparatus of claim 20, wherein the network monitoring devices determine a received signal strength.
22	The apparatus of claim 20, wherein determining the policy comprises selecting the policy from a set of policies and updating the parameter.
23	The apparatus of claim 20, wherein determining the policy comprises determining a condition for communicating the policy.
24	The apparatus of claim 20, wherein the data further comprises time-varying data.
25	The apparatus of claim 20, wherein the server performs an analysis of at least one of the data and historical data.