

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO. LTD.
("Samsung"),
Petitioner

v.

ERICSSON INC. ET AL.
("Ericsson"),
Patent Owner

Case IPR2021-00447
Patent No. 10,454,655

DECLARATION OF DR. ROBERT AKL, D.Sc.

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	A. Independent Claim 21	56

[21pre]	A method of operating a wireless terminal in communication with a wireless communication network, the method comprising:.....	57
[21a]	receiving a medium access control, MAC, control element, CE, from the wireless communication network,.....	58
[21b]	wherein the MAC CE has one of a plurality of formats, wherein a first format of the plurality of formats has a first bit map size and the first format is associated with a first Logical Channel Identity (LCID), wherein a second format of the plurality of formats has a second bit map size and the second format is associated with a second LCID,	60
[21c]	wherein the first and second bit map sizes are different, and	64
[21d]	wherein the first and second LCIDs are different; and	66
[21e]	responsive to receiving one of the first and second LCIDs together with the MAC CE, applying a bit map of the MAC CE using one of the first and second bit map sizes to activate/deactivate component carriers of a group of component carriers based on the one of the first and second LCIDs received together with the MAC CE.	67
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[25a]	..., wherein the MAC CE is a first MAC CE, wherein the bit map is a first bit map, and wherein the component carriers are first component carriers of a first group, the method further comprising:.....	77
[25b]	receiving a second MAC CE from the wireless communication network,.....	77
[25c]	wherein the second MAC CE is received together with the second LCID, wherein the second MAC CE has the second format, and wherein second MAC CE has a second	

	bit map with the second bit map size of the second format; and.....	78
	[25d] responsive to receiving the second LCID together with the second MAC CE, applying the second bit map of the second MAC CE using the second bit map size to activate/deactivate second component carriers of a second group of component carriers.	79
F.	Independent Claim 26.....	80
	[26pre] A wireless terminal comprising:	81
	[26a] a transceiver configured to provide radio communications with a wireless communication network over a radio interface; and a processor coupled with the transceiver, wherein the processor is configured to:	82
	[26b] a processor coupled with the transceiver, wherein the processor is configured to:	83
	[26c] receiving a medium access control, MAC, control element, CE, from the wireless communication network.....	84
	[26d] wherein the MAC CE has one of a plurality of formats, wherein a first format of the plurality of formats has a first bit map size and the first format is associated with a first Logical Channel Identity (LCID), wherein a second format of the plurality of formats has a second bit map size and the second format is associated with a second LCID,	84
	[26e] wherein the first and second bit map sizes are different, and	84
	[26f] wherein the first and second LCIDs are different; and.....	84
	[26g] responsive to receiving one of the first and second LCIDs together with the MAC CE, applying a bit map of the MAC CE using one of the first and second bit map sizes to activate/deactivate component carriers of a group of component carriers based on the one of the first and second LCIDs received together with the MAC CE.	84
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	[30a] ..., wherein the MAC CE is a first MAC CE, wherein the bit map is a first bit map, and wherein the component carriers are first component carriers of a first group, wherein the processor is further configured to:	86
	[30b] receiving a second MAC CE from the wireless communication network,.....	86
	[30c] wherein the second MAC CE is received together with the second LCID, wherein the second MAC CE has the second format, and wherein second MAC CE has a second bit map with the second bit map size of the second format; and	86
	[30d] responsive to receiving the second LCID together with the second MAC CE, applying the second bit map of the second MAC CE using the second bit map size to activate/deactivate second component carriers of a second group of component carriers.	87
K.	Independent Claim 31	87
	[31pre] A method of operating a node of a wireless communication network, the method comprising:.....	88
	[31a] selecting one of a first format and a second format for a medium access control, MAC, control element, CE,	88
	[31b] wherein the first format has a first bit map size and the first format is associated with a first Logical Channel Identity (LCID), wherein the second format has a second bit map size and the second format is associated with a second LCID,	91
	[31c] wherein the first and second bit map sizes are different, and	91
	[31d] wherein the first and second LCIDs are different; and	91
	[31e] transmitting the MAC CE to a wireless terminal together with one of the first and second LCIDs associated with the one of the first and second formats selected for the MAC CE,.....	91

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