

Open web↔net

OPEN PROTOCOL FOR ELECTRICAL NETWORKS

Who = 22
Sound Diffusion
Version 1.1

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Chapter 1

Introduction

This file is available from <http://www.myopen-legrandgroup.com>. The purpose of this document is to describe the Open Web Net Message for WHO = 22 - Sound Diffusion System. In particular, the document contains the "1.1 Abbreviations" section which describe some terms, with the relative values, used within the open message. The second chapter, "WHO 22", contains the "WHAT", "DIMENSION" and "WHERE" tables, finally the chapter 3, "Allowed OPEN messages Session", contains command and event session, status request, dimension writing and request for source and speakers.

1.1 Abbreviations

Name	Description	Range of Values
<mmtype>	Multimedia type	[1-4]; 11: <ul style="list-style-type: none"> • 1 → Voice • 2 → Canal Right • 3 → Canal Left • 4 → Canal Stereo • 11 → All Source
<sourceID>	Source address	[1-4]
<area>	Represents the output area where the source is ON	[1-9]
<point>	Represents the speaker's fonic point	[1-9]
<deviceState>	Represents state of device	[0-1]: <ul style="list-style-type: none"> • 0 = OFF; • 1 = ON

<freqStep>	Frequency step value	[1-15]: <ul style="list-style-type: none"> • 1 = 50Hz; • 2 = 100Hz; • 3 = 150Hz; •; •; • 15 = 750Hz
<freqValue>	Frequency of the selected station	
<modulation>	Modulation type	[1-4]: <ul style="list-style-type: none"> • 1 = FM; • 2 = AM-LW; • 3 = AM-MW; • 4 = AM-SW
<station>	Number of memorized station	[1-5]: <ul style="list-style-type: none"> • F500 [1-15]: <ul style="list-style-type: none"> • F500N
<track>	Represents the number of track to select	[1-999]
<volumeStep>	Represent the step of the volume increase	[1-31]
<volume>	Volume of speaker	[0-31]
<tonesValue>	Indicates the values of tones	[1-63]
<balanceValue>	Indicates the values of balance	[1-63]
<presetType>	Indicates the number of selected preset	[2-11]: <ul style="list-style-type: none"> • 2 = Normal; • 3 = Dance; • 4 = Pop; • 5 = Rock; • 6 = Classic; • 7 = Techno; • 8 = Party; • 9 = Soft; • 10 = Full bass; • 11 = Full treble; • 16-25 = User defined preset
<3dLevel>	Level of 3D effect	[0-10]

<loudness>	Represent the state of loudness	[0-1]: <ul style="list-style-type: none"> • 0 = OFF; • 1 = ON
<equalizationX>	Equalization	X[1-3]
<band>		if X values in equalization is: <ul style="list-style-type: none"> • 1→band=BAND1*BAND2*BAND3; • 2→band=BAND4*BAND5*BAND6; • 3→band=BAND7*BAND8;
Ack	The command has been sent to Bus	*#*1##

Chapter 2

WHO 22

2.1 WHAT Table

Value	Description
0	Turn off
1	Turn on
2	Source turned on
3	Increase volume
4	Decrease volume
5	Automatic tuner search towards higher frequencies
6	Manual tuner search towards lower frequencies
9	Go to a following station
10	Go to a previous station
11	Go to a following track
12	Go to a previous track
22	Sliding request
31	Ask a source to start telling RDS message
32	Ask a source to stop telling RDS message
33	Store the presently tuned frequency on a certain station
34	Turn ON Amplifier with follow me method
35	Turn ON Amplifier to a certain source
36	Increment Low Tones
37	Decrement Low Tones
38	Increment Mid Tones
39	Decrement Mid Tones
40	Increment High Tones
41	Decrement High Tones
42	Increment balance (left>right)
43	Decrement balance (left<right)
55	Next Preset
56	Previous Preset

2.2 DIMENSION Table

Value	Description
1	Volume
2	High Tones
3	Medium Tones
4	Low Tones
5	Frequency
6	Track/station

7	Play status
11	Frequency and Station
12	Device state
17	Balance
18	3D
19	Preset
20	Loudness

2.3 WHERE Table

Description	Value
Source	2#sourceID
Speaker	3#area#point
Speaker Area	4#area
General	5#sender_address
All Source	6

Chapter 3

Allowed OPEN messages Session

3.1 Command session - Source

3.1.1 Turn OFF - What = 0

Command	Open Frame
Client → Server	*22*0#<mmtype>#<area>*2#<sourceID>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*2#<sourceID>*12*<deviceState>*<mmtype>##

3.1.2 Turn ON - What = 1

Command	Open Frame
Client → Server	*22*1#<mmtype>#<area>*2#<sourceID>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*2#<sourceID>*12*<deviceState>*<mmtype>##
Server → Client	*22*21#<mmtype>#<area>*5#2#<sourceID>##
Server → Client	*22*2#<mmtype>#<area>*5#2#<sourceID>##

3.1.3 Frequency Up - What = 5

Command	Open Frame	Note
Client → Server	*22*5#*2#<sourceID>##	source allowed: radio the search is automatic
Client → Server	*22*5#<freqStep>*2#<sourceID>##	source allowed: radio
Server → Client	Ack	

Event Session	Open Frame
Server → Client	*#22*where*5*<modulation>*<freqValue>##

3.1.4 Frequency Down - What = 6

Command	Open Frame	Note
Client → Server	*22*6#*2#<sourceID>##	source allowed: radio the search is automatic
Client → Server	*22*6#<freqStep>*2#<sourceID>##	
Server → Client	Ack	

Event Session	Open Frame
Server → Client	*#22*where*5*<modulation>*<freqValue>##

3.1.5 Next Station - What = 9

Command	Open Frame	Note
Client → Server	*22*9#*2#<sourceID>##	source allowed: radio
Server → Client	Ack	

Event Session	Open Frame
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*5#2#<sourceID>*11*<modulation>*<freqValue>*<station>##
Server → Client	*#22*2#<sourceID>*6*<station>##

3.1.6 Previous Station - What = 10

Command	Open Frame	Note
Client → Server	*22*10#*2#<sourceID>##	source allowed: radio
Server → Client	Ack	

Event Session	Open Frame
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*5#2#<sourceID>*11*<modulation>*<freqValue>*<station>##
Server → Client	*#22*2#<sourceID>*6*<station>##

3.1.7 Next Track - What = 11

Command	Open Frame	Note
Client → Server	*22*11#*2#<sourceID>##	source allowed: <ul style="list-style-type: none"> • Aux; • Multimedia SCS Source
Client → Server	*22*11#<freqStep>*2#<sourceID>##	source allowed: <ul style="list-style-type: none"> • Aux; • Multimedia SCS Source • <freqStep>= if not specified the step is = 1
Server → Client	Ack	

Event Session	Open Frame
Server → Client	No event session

3.1.8 Previous Track - What = 12

Command	Open Frame	Note
Client → Server	*22*12#*2#<sourceID>##	source allowed: <ul style="list-style-type: none"> • Aux; • Multimedia SCS Source
Client → Server	*22*12#<freqStep>*2#<sourceID>##	source allowed: <ul style="list-style-type: none"> • Aux; • Multimedia SCS Source • <freqStep>= if not specified the step is = 1
Server → Client	Ack	

Event Session	Open Frame
Server → Client	No event session

3.1.9 Go To Source - What = 22

Command	Open Frame	Note
Client → Server	*22*22#<mmtype>#<area>*2#<sourceID>##	
Server → Client	Ack	

Event Session	Open Frame
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*5#2#<sourceID>*11*<modulation>*<freqValue>*<station>##
Server → Client	*#22*2#<sourceID>*6*<station>##

3.1.10 Start RDS message - What = 31

Command	Open Frame	Note
Client → Server	*22*31#<sourceID>##	source allowed: radio
Server → Client	Ack	

Event Session	Open Frame
Server → Client	*#22*where*10*VAL1*VAL2*VALn##

3.1.11 Stop RDS message - What = 32

Command	Open Frame	Note
Client → Server	*22*32#<sourceID>##	source allowed: radio
Server → Client	Ack	

Event Session	Open Frame
Server → Client	No event session

3.1.12 Store Station - What = 33

Command	Open Frame	Note
Client → Server	*22*33#<station>*2#<sourceID>##	source allowed: radio
Server → Client	Ack	

Event Session	Open Frame
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*5#2#<sourceID>*11*<modulation>*<freqValue>*<station>##
Server → Client	*#22*2#<sourceID>*6*station##

3.2 Command session - Speaker

3.2.1 Turn OFF - What = 0

Command	Open Frame
Client → Server	*22*0#<mmtype><area>*3#<area><point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*12*<deviceState>*<mmtype>##

3.2.2 Turn ON - What = 1

Command	Open Frame
Client → Server	*22*1#<mmtype><area>*3#<area><point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*12*<deviceState>*<mmtype>##
Server → Client	*#22*3#<area>#<point>*1*<volume>*##

3.2.3 Increase Volume - What = 3

Command	Open Frame
Client → Server	*22*3#<volumeStep>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*1*<volume>*##

3.2.4 Decrease Volume - What = 4

Command	Open Frame
Client → Server	*22*4#<volumeStep>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*1*<volume>*##

3.2.5 Turn ON whit Follow me - What = 34

Command	Open Frame
Client → Server	*22*34#<mmtype>#<area>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*22*2#<mmtype>#<area>*5#2#<sourceID>##
Server → Client	*#22*3#<area>#<point>*12*<deviceState>*<mmtype>##

3.2.6 Turn ON Amplifier to certain source - What = 35

Command	Open Frame
Client → Server	*22*35#4#<area>#<sourceID>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*22*21#<mmtype>#<area>*5#2#<sourceID>##
Server → Client	*22*2#<mmtype>#area*5#2#<sourceID>##
Server → Client	*#22*3#<area>#<point>*12*<deviceState>*<mmtype>##
Server → Client	*#22*3#<area>#<point>*1*<volume>##

3.2.7 Increment Low Tones - What = 36

Command	Open Frame
Client → Server	*22*36#<tonesValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*<tonesValue>##

3.2.8 Decrement Low Tones - What = 37

Command	Open Frame
Client → Server	*22*37#<tonesValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*<tonesValue>##

3.2.9 Increment Mid Tones - What = 38

Command	Open Frame
Client → Server	*22*38#<tonesValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*3*<tonesValue>##

3.2.10 Decrement Mid Tones - What = 39

Command	Open Frame
Client → Server	*22*39#<tonesValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*3*<tonesValue>##

3.2.11 Increment High Tones - What = 40

Command	Open Frame
Client → Server	*22*40#<tonesValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*<tonesValue>##

3.2.12 Decrement High Tones - What = 41

Command	Open Frame
Client → Server	*22*41#<tonesValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*<tonesValue>##

3.2.13 Increment Balance: Left > Right - What = 42

Command	Open Frame
Client → Server	*22*42#<balanceValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*17*<value>##

3.2.14 Decrement Balance: Left < Right - What = 43

Command	Open Frame
Client → Server	*#22*43#<balanceValue>*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*17*<value>##

3.2.15 Next Preset - What = 55

Command	Open Frame
Client → Server	*#22*55##<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*19*<presetType>##
Server → Client	*#22*3#<area>#<point>*18*<3dLevel>##
Server → Client	*#22*3#<area>#<point>*20*<loudness>##
Server → Client	*#22*3#<area>#<point>*21#1*<band>##
Server → Client	*#22*3#<area>#<point>*21#2*<band>##
Server → Client	*#22*3#<area>#<point>*21#3*<band>##

3.2.16 Previous Preset - What = 56

Command	Open Frame
Client → Server	*#22*56##<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*19*<presetType>##
Server → Client	*#22*3#<area>#<point>*18*<3dLevel>##
Server → Client	*#22*3#<area>#<point>*20*<loudness>##
Server → Client	*#22*3#<area>#<point>*21#1*<band>##
Server → Client	*#22*3#<area>#<point>*21#2*<band>##
Server → Client	*#22*3#<area>#<point>*21#3*<band>##

3.3 Status request

3.3.1 Source

Command	Open Frame
Client → Server	*#22*<where>##
Server → Client	Ack

Event Session	Open Frame	Note
Server → Client	*#22*2#<sourceID>*12*<deviceState>*<mmttype>##	if where is 5#2#sourceID in status request 12 then we have a dimension 12 for each source and speaker

3.3.2 Speaker

Command	Open Frame
Client → Server	*#22*3#<area>#<point>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*12*<deviceState>*<mmttype>##

3.4 Dimension writing

3.4.1 Source

3.4.1.1 State Memorized Station - Dimension = 11

Command	Open Frame
Client → Server	*#22*5#2#<sourceID>*#11*<modulation>*<freqValue>*<station>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*5#2#<sourceID>*11*<modulation>*<freqValue>*<station>##

3.4.1.2 Device state - Dimension = 12

Command	Open Frame
Client → Server	*#22*5#2#<sourceID>*#12*<deviceState>*<mmttype>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	No event session

3.4.2 Speakers

3.4.2.1 Volume - Dimension = 1

Command	Open Frame
Client → Server	*#22*3#<area>#<point>#1*<volumeStep>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#16*<area><point>*1*<volume>##
Server → Client	*#22*3#<area>#<point>*1*<volume>##

3.4.2.2 High tones - Dimension = 2

Command	Open Frame
Client → Server	*#22*3#<area>#<point>#2*<tonesValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*4##

3.4.2.3 Medium tones - Dimension = 3

Command	Open Frame
Client → Server	*#22*3#<area>#<point>#3*<tonesValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*4##

3.4.2.4 Low tones - Dimension = 4

Command	Open Frame
Client → Server	*#22*3#<area>#<point>#4*<tonesValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*4##

3.4.2.5 Device state - Dimension = 12

Command	Open Frame
Client → Server	*#22*3#<area>#<point>#12*<deviceState>*<mmtype>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	No event session

3.4.2.6 Balance - Dimension = 17

Command	Open Frame
Client → Server	*#22*3#<area>#<point>#17*<balanceValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*17*<balanceValue>##

3.4.2.7 Preset - Dimension = 19

Command	Open Frame
Client → Server	*#22*3#<area>#<point>#19*<presetType>##
Server → Client	Ack

Event Session	Open Frame
---------------	------------

Server → Client	*#22*3#<area>#<point>*20*<loudness>##
Server → Client	*#22*3#<area>#<point>*18*<3dLevel>##
Server → Client	*#22*3#<area>#<point>*19*<presetType>##
Server → Client	*#22*5#3#<area>#<point>*21#<equalization1>*<band>##
Server → Client	*#22*5#3#<area>#<point>*21#<equalization2>*<band>##
Server → Client	*#22*5#3#<area>#<point>*21#<equalization3>*<band>##

3.4.2.8 Loudness - Dimension = 20

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*#20*<loudness>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*20*<loudness>##
Server → Client	*#22*3#<area>#<point>*18*<3dLevel>##
Server → Client	*#22*3#<area>#<point>*19*<presetType>##

3.5 Dimension request

3.5.1 Source

3.5.1.1 State frequency - Dimension = 5

Command	Open Frame
Client → Server	*#22*5#2#<sourceID>*5##
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*2#<sourceID>*11*<modulation>*<freqValue>*<station(or track)>##

3.5.1.2 State station/track - Dimension = 6

Command	Open Frame
Client → Server	*#22*5#2#<sourceID>*6##
Server → Client	*#22*5#2#<sourceID>*6*<station(or track)>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*2#<sourceID>*6*<station(or track)>##
Server → Client	*#22*2#<sourceID>*11*<modulation>*<freqValue>*<station(or track)>##

3.5.1.3 State memorized station - Dimension = 11

Command	Open Frame
Client → Server	*#22*5#2#<sourceID>*11##
Server → Client	*#22*5#2#<sourceID>*11*<modulation>*<freqValue>*<station(or track)>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*5#2#<sourceID>*5*<modulation>*<freqValue>##
Server → Client	*#22*5#2#<sourceID>*11*<modulation>*<freqValue>*<station(or track)>##

3.5.1.4 Device state - Dimension = 12

Command	Open Frame
Client → Server	*#22*5#2#<sourceID>*12##
Server → Client	*#22*2#<sourceID>*12*<deviceState>*<mmttype>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*2#<sourceID>*12*<deviceState>*<mmttype>##

3.5.2 Speakers

3.5.2.1 Volume - Dimension = 1

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*1##
Server → Client	*#22*3#<area>#<point>*1*<volume>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#16*<area><point>*1*<volume>##
Server → Client	*#22*3#<area>#<point>*1*<volume>##

3.5.2.2 High tones - Dimension = 2

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*2##
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*3*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*<tonesValue>##

3.5.2.3 Medium tones - Dimension = 3

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*3##
Server → Client	*#22*3#<area>#<point>*3*<tonesValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*3*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*<tonesValue>##

3.5.2.4 Low tones - Dimension = 4

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*4##
Client → Server	*#22*3#<area>#<point>*4*<tonesValue>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*2*<tonesValue>##
Server → Client	*#22*3#<area>#<point>*4*<tonesValue>##

3.5.2.5 Device state - Dimension = 12

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*12##
Server → Client	*#22*3#<area>#<point>*12*<deviceState>*<mmtype>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*16*3*<area><point>##
Server → Client	*#22*3#<area>#<point>*12*<deviceState>*<mmtype>##

3.5.2.6 Balance - Dimension = 17

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*17##
Server → Client	Ack

Event Session	Open Frame
Server → Client	#22*3#<area>#<point>*17*<balanceValue>##

3.5.2.7 Preset - Dimension = 19

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*19##
Server → Client	*#22*3#<area>#<point>*19*<presetType>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*20*<loudness>##
Server → Client	*#22*3#<area>#<point>*18*<3dLevel>##
Server → Client	*#22*3#<area>#<point>*19*<presetType>##

3.5.2.8 Loudness - Dimension = 20

Command	Open Frame
Client → Server	*#22*3#<area>#<point>*20##
Server → Client	*#22*3#<area>#<point>*20*<loudness>##
Server → Client	Ack

Event Session	Open Frame
Server → Client	*#22*3#<area>#<point>*20*<loudness>##
Server → Client	*#22*3#<area>#<point>*18*<3dLevel>##
Server → Client	*#22*3#<area>#<point>*19*<presetType>##