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EasyGate Pro & Lift1 multiconnection

2N[®] EasyGate Pro with multiple 2N[®] Lift1



Product description

Version 1.0

www.2n.cz

1.1 EasyGate PRO multiconnection to Lift1

Functional description

EasyGate PRO together with 2N® Single Talk Line Switch (ordering number 913655SF) can be connected up to three Lift1 communication units. The EasyGate PRO must be equipped with the special license for this purpose, which can be bought from 2N under ordering number **5013902LE**.

The principle of the function is following:

The outgoing call from Lift1 is handled by Line Switch to the EasyGate, the call is connected the same way as for single user configuration. When the call is in progress, other connected Lift1 units can't be used. This is managed by Line Switch.

The incoming call is picked up by the EasyGate, the EasyGate gives the confirmation tone and waits for 10 seconds for DTMF signal (1, 2 or 3) to select which of the Lift1 units should be connected. When the signal is not received, unit 1 will be connected.

The selection of the Lift1 unit is done by ring pattern. The communicator Lift1 must be set to accept ring pattern according the position:

Position	Ring Pattern	L1 settings of par.952 (Min. ring tone long space time)	L1 settings of par.953 (Max. ring tone long space time)
1	1 s ring, 4 s space	3500 ms	4500 ms
2	1 s ring, 2 s space	1500 ms	2500 ms
3	1 s ring, 3 s space	2500 ms	3500 ms

EasyGate PRO settings

The license number has 8 characters unique for each gateway, which must be supplied by 2N. The license can be loaded to the EasyGate by SMS or by DTMF programming. The parameter for License loading is 66.

The function can be switched ON or OFF by parameter 966. At the moment this parameter is not accessible by EasyGate PRO programming tool for PC (PCManager UNI). The settings must be done by SMS or by DTMF programming.

The default value for the programming keyword is 12345. For instance lets expect that license number is 98765432. Than the SMS for loading license and enabling multiconnection will look like:

EG CNF 12345 66=98765432 966=1

The response will be:

EG.CNF OK	command confirmation
SN:xx-xxxx-xxxx	serial number
FW:18.7.15	FW version
LIC:Y	License loaded – new value
IMEI:xxxxxxxxxxxxxxxx	IMEI
IMSI:xxxxxxxxxxxxxxxx	IMSI
LAI:230;01;Home;2G	Network number, home network, technology 2G
RSSI:-65dBm	Strength of signal
PWR:On	Power present
BATT:OK	Battery status

The presence of the license can be tested by SMS:

EG INF 12345

The response will be the same

The local DTMF setting will be done by this setup:

12345*66*98765432*966*1*

Lift1 settings

The values for ring pattern of Lift1 to select the position of Lift1 (1/2/3) can be done manually according the table above (parameters 952 and 953) or automatically by EasyGate and SMS programming. There is a new command for Lift1 programming "RNG". This command sets the parameters 952 and 953 from the default value 952=100 and 953=6000. The Lift1 number 1 must be set as the last one, which is sensitive to the standard ring signal (1s/4s). The recommended proceeding is:

1. Connect unit 3 and send SMS: L1.3 RNG12345 (Lift1 will be set to 952=2500, 953= 3500)
2. Add unit 2 and send SMS: L1.2 RNG12345 (Lift1 will be set to 952=1500, 953= 2500)
3. Add unit 1 and send SMS: L1.1 RNG12345 (Lift1 will be set to 952=3500, 953= 4500)

After this setting the incoming call to EasyGate can be directed to the Lift1 by DTMF 1,2 or 3 as described in the beginning.

With this setting the SMS programming of Lift1 over EasyGate can be done by selecting Lift1 in SMS by selector dot and 1,2,3 in the beginning of the SMS. The SMS programming is described in the chapter *1.3 Lift1 SMS Programming over EasyGate PRO*. For example the settings of parameter 974 – Intercom identification number - to value 5555, default password 12345, Lift1 position 2 will be done by SMS:

L1.2 CNF 12345 974=5555

The Lift1 can be set back to the standard ring pattern, only one Lift1 must be connected to the EasyGate. The command L1 RNG 12345 will try all ring cadencies till the Lift1 picks up the line, than it is programmed to default values (952=1000, 953=6000).

1.2 EasyGate PRO SMS programming

SMS format for EasyGate PRO

The SMS format for EasyGate PRO setting is:

EG CNF password parameter1=value1 parameter2=value2	Parameter configuration
EG DEF password	Factory default setting
EG RST password	Restart
EG INF password	Send back information SMS only

The separation characters are space.

The maximal length of SMS is 160 characters for 7-bit SMS, 140 characters for 8bit SMS.

Multiple SMS are not permitted.

Any number of parameters can be programmed in one SMS, the maximal length of SMS must be kept.

Different functions (CNF, DEF, RST, INF) can't be combined in one SMS

Parameters 603 (SMS) and 706 (APN) must be in apostrophes (')

password	The programming menu password for EasyGate, factory default is 12345
parameter	Parameter number to be changed
value	New value of the parameter

EasyGate PRO responses

Possible responses are:

EG CNF OK information data	correct setting
EG DEF OK information data	correct default setting
EG RST OK information data	correct reset
EG INF information data	information SMS
EG ERR Invalid Message	incorrect header EG
EG ERR Unknown Command	incorrect function CNF, DEF, RST, INF
EG ERR Invalid Password	incorrect password for EasyGate
EG ERR Invalid Parameters	incorrect parameter number
EG ERR Invalid Syntax	incorrect characters space or =, additional characters

Information data structure

SN:xx-xxxx-xxxx	serial number
FW:18.7.15	FW version
LIC:Y	Multi L1 license loaded
IMEI:xxxxxxxxxxxxxxxx	IMEI
IMSI:xxxxxxxxxxxxxxxx	IMSI
LAI:230;01;Home;2G	Network number, home network, technology 2G
RSSI:-65dBm	Strength of signal
PWR:On	Power present
BATT:OK	Battery status

Examples

Example 1:

Setting of parameter 702 – Roaming enable, default password 12345

L1 CNF 12345 702=1

Example 2:

Selecting parameter 603 – SMS text, default password 12345

L1 CNF 12345 603='Text for SMS'

1.3 Lift1 SMS programming over EasyGate PRO

SMS format for Lift1 programming

The SMS format for Lift1 setting is:

L1 CNF password parameter1=value1 parameter2=value2	Parameter configuration
L1 DEF password	Factory default setting (profile1)
L1 SET password n	Select profile number n
L1 RST password	Restart

The separation characters are space

The maximal length of SMS is 160 characters for 7-bit SMS, 140 characters for 8bit SMS

Multiple SMS are not permitted

Any number of parameters can be programmed in one SMS, the maximal length of SMS must be kept

Different functions (CNF, DEF SET, RST) can't be combined in one SMS

password	The programming menu password for Lift1, factory default is 12345
parameter	Parameter number to be changed
value	New value of the parameter
n	Number of profile, the highest value depends on number of programmed profiles, the highest possible profile number is 9

Possible responses are:

L1 CNF OK	correct setting
L1 ERR Invalid Message	incorrect header L1
L1 ERR Unknown Command	incorrect function CNF, DEF, SET, RST
L1 ERR Invalid Password	incorrect password for Lift1
L1 ERR Invalid Parameters	incorrect parameter number
L1 ERR Invalid Syntax	incorrect characters space or =, additional characters
L1 ERR Does not Respond	Lift1 didn't hook off the configuration call for 60 s of ringing Lift1 didn't accept CPC programming mode Lift1 handled the CPC procedures with error Lift1 hooked on during programming

Example 1:

Setting of parameter 974 – Intercom identification number to value 5555, default password 12345

L1 CNF 12345 974=5555

Example 2:

Selecting profile 2, default password 12345

L1 SET 12345 2

Additional commands for FW version 2.0.0 and higher

Function INFO, SMS format is:

L1 INF password

password The programming menu password for Lift1, factory default is 12345

Possible responses are:

L1 INF Serial_number HW_verze Custom_modification Bootloader_version FW_version VM_info

L1 ERR Unknown Command – EasyGate old version, command not supported

L1 INF N/A 1.x.x.x.x N/A N/A N/A – Lift1 old version, command not supported

The Lift1 version 2 has some differences in parameters, than is necessary to be able to find version of the communicator prior to programming procedure



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