



WANESY SPN SYSTEM WEB SERVICES

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TABLE OF CONTENT

Wanesy SPN System Web Services.....	1
History.....	1
Table of content.....	2
Reference.....	4
Glossary.....	4
Introduction.....	5
1. Wanesy SPN System REST API.....	5
1.1 Login.....	5
1.2 Configuration and administration.....	6
1.2.1 Get Ethernet (LAN) configuration.....	6
1.2.2 Set Ethernet (LAN) configuration.....	7
1.2.3 Get Wi-Fi (WLAN) configuration.....	8
1.2.4 Set Wi-Fi (WLAN) configuration.....	9
1.2.5 Get GSM configuration.....	10
1.2.6 Set GSM configuration.....	11
1.2.7 Get OpenVPN configuration.....	12
1.2.8 Set OpenVPN configuration.....	13
1.2.9 Get OpenVPN working file list.....	14
1.2.10 Download OpenVPN configuration.....	15
1.2.11 Upload OpenVPN configuration.....	16
1.2.12 Download OpenVPN certificate.....	17
1.2.13 Upload OpenVPN certificate.....	18
1.2.14 Upload OpenVPN certificate archive.....	19
1.2.15 Get time zones.....	20
1.2.16 Get time configuration.....	21
1.2.17 Set time configuration.....	22
1.2.18 Get log.....	23
1.2.19 Download log.....	24
1.2.20 Download configuration.....	25

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1.2.21 Upload configuration.....	26
1.2.22 Reset configuration.....	27
1.2.23 Update.....	28
1.2.24 Restore.....	29
1.2.25 Reboot.....	30
1.2.26 Halt.....	31
1.2.27 Set password.....	32
1.2.28 Get version.....	33
1.2.29 Get status.....	34
2. Data Transfer Object.....	35
2.1 UserDto.....	35
2.2 JWTDto.....	35
2.3 LANConfigurationDto.....	35
2.4 WLANConfigurationDto.....	35
2.5 GSMConfigurationDto.....	36
2.6 OpenVPNDto.....	36
2.7 OpenVPNFileListDto.....	36
2.8 TimeZonesDto.....	36
2.9 TimeDto.....	37
2.10 PasswordDto.....	37
2.11 VersionDto.....	37
2.12 StatusDto.....	37
2.13 ErrorDto.....	38
2.14 PaginatedDto.....	38
End of document.....	39

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REFERENCE

Reference	Document / link	Description

GLOSSARY

Abbreviation	Description
API	Application Programming Interface
DHCP	Dynamic Configuration Host Protocol
DTO	Data Transfer Object
IoT	Internet of Things
IP	Internet Protocol
JSON	JavaScript Object Notation
LAN	Local Area Network
REST	REpresentational State Transfer
URI	Uniform Resource Identifier
Wi-Fi	Wireless-Fidelity
WLAN	Wireless LAN

Introduction

This document describes the system specific web services provided by Wanesy SPN firmware.

1. Wanesy SPN System REST API

1.1 Login

The login web service allows a user to authenticate to the middleware by providing its login and password fields, and in case of success getting a token that he will use for the next requests.

Note: the token has an expiration date that can be defined in the properties file.

Request				
Signature	Method	login		
	URI	POST /application/administration/login		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
Body	userDto	UserDto (login and password)		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	201	JWTDto		
	4xx, 5xx	ErrorDto		

1.2 Configuration and administration

1.2.1 Get Ethernet (LAN) configuration

Request				
Signature	Method	getLANConfiguration		
	URI	GET /application/administration/lan		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	LANConfigurationDto		
	4xx, 5xx	ErrorDto		

1.2.2 Set Ethernet (LAN) configuration

Request				
Signature	Method	setLANConfiguration		
	URI	PUT /application/administration/lan		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	LANConfigurationDto	LANConfigurationDto		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

Note: the call of this web service may not lead to a response if called from LAN interface and if web service requests a LAN disconnection.

1.2.3 Get Wi-Fi (WLAN) configuration

Request				
Signature	Method	getWLANConfiguration		
	URI	GET /application/administration/wlan		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	WLANConfigurationDto		
	4xx, 5xx	ErrorDto		

1.2.4 Set Wi-Fi (WLAN) configuration

Request				
Signature	Method	setWLANConfiguration		
	URI	PUT /application/administration/wlan		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	WLANConfigurationDto	WLANConfigurationDto		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

Note: the call of this web service may not lead to a response if called from WLAN interface and if web service requests a WLAN disconnection.

1.2.5 Get GSM configuration

Request				
Signature	Method	getGSMConfiguration		
	URI	GET /application/administration/gsm		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	GSMConfigurationDto		
	4xx, 5xx	ErrorDto		

1.2.6 Set GSM configuration

Request				
Signature	Method	setGSMConfiguration		
	URI	PUT /application/administration/gsm		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	GSMConfigurationDto	GSMConfigurationDto		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

Note: the call of this web service may not lead to a response if called from GSM interface and if web service requests a GSM disconnection.

1.2.7 Get OpenVPN configuration

Request				
Signature	Method	getOpenVPNConfiguration		
	URI	GET /application/administration/openvpn		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	OpenVPNDto		
	4xx, 5xx	ErrorDto		

1.2.8 Set OpenVPN configuration

Request				
Signature	Method	setOpenVPNConfiguration		
	URI	PUT /application/administration/openvpn		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	networkDto	OpenVPNDto		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.9 Get OpenVPN working file list

Request				
Signature	Method	getOpenVPNWorkingFileList		
	URI	GET /application/administration/openvpn_file_list		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	OpenVPNFileListDto		
	4xx, 5xx	ErrorDto		

1.2.10 Download OpenVPN configuration

Request				
Signature	Method	downloadOpenVPNConfiguration		
	URI	GET /application/administration/openvpn_configuration		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	text/plain; charset=utf-8		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	OpenVPN configuration file content		
	4xx, 5xx	ErrorDto		

1.2.11 Upload OpenVPN configuration

Request				
Signature	Method	uploadOpenVPNConfiguration		
	URI	POST /application/administration/openvpn_configuration		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	Content-Type: multipart/form-data; boundary=		
	Authorization	Bearer <token>		
Body	OpenVPN configuration file	OpenVPN configuration file with the following properties: Content-Disposition: form-data; name="file"; filename="openvpn_configuration" Content-Type: application/octet-stream		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.12 Download OpenVPN certificate

Request				
Signature	Method	downloadOpenVPNCertificate		
	URI	GET /application/administration/openvpn_certificate		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	text/plain; charset=utf-8		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	OpenVPN certificate file content		
	4xx, 5xx	ErrorDto		

1.2.13 Upload OpenVPN certificate

Request				
Signature	Method	uploadOpenVPNCertificate		
	URI	POST /application/administration/openvpn_certificate		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	Content-Type: multipart/form-data; boundary=		
	Authorization	Bearer <token>		
Body	OpenVPN certificate file	OpenVPN certificate file with the following properties: Content-Disposition: form-data; name="file"; filename="openvpn_certificate" Content-Type: application/octet-stream		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.14 Upload OpenVPN certificate archive

Request				
Signature	Method	uploadOpenVPNCertificateArchive		
	URI	POST /application/administration/openvpn_certificate_archive		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	Content-Type: multipart/form-data; boundary=		
	Authorization	Bearer <token>		
Body	OpenVPN certificate archive file	OpenVPN certificate archive file with the following properties: Content-Disposition: form-data; name="file"; filename="openvpn_certificate_archive" Content-Type: application/octet-stream		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.15 Get time zones

Request				
Signature	Method	getTimeZones		
	URI	GET /application/administration/timezones		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	TimeZonesDto		
	4xx, 5xx	ErrorDto		

1.2.16 Get time configuration

Request				
Signature	Method	getTimeConfiguration		
	URI	GET /application/administration/time		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	TimeDto		
	4xx, 5xx	ErrorDto		

1.2.17 Set time configuration

Request				
Signature	Method	setTimeConfiguration		
	URI	PUT /application/administration/time		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	timeDto	TimeDto. Leave field date_time blanked to not set date/time		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.18 Get log

Request				
Signature	Method	getLog		
	URI	GET /application/administration/log/{type}		
Parameters	Name	Type	Mandatory	Description
	type	String	Yes	'public': public logs 'lora_mac_server': LoRa MAC server logs 'packet_forwarder': packet forwarder 'internal': internal logs
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	text/plain; charset=utf-8		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	Log content		
	4xx, 5xx	ErrorDto		

1.2.19 Download log

Request				
Signature	Method	downloadLog		
	URI	GET /application/administration/log/file/{type}		
Parameters	Name	Type	Mandatory	Description
	type	String	Yes	'internal': internal logs 'public': public logs 'lora_mac_server': LoRa MAC server logs 'packet_forwarder' packet forwarder
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/octet-stream		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	Log file content		
	4xx, 5xx	ErrorDto		

1.2.20 Download configuration

Request				
Signature	Method	downloadConfiguration		
	URI	GET /application/administration/configuration		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	text/plain; charset=utf-8		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	Configuration file content		
	4xx, 5xx	ErrorDto		

1.2.21 Upload configuration

Request				
Signature	Method	uploadConfiguration		
	URI	POST /application/administration/configuration		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	Content-Type: multipart/form-data; boundary=		
	Authorization	Bearer <token>		
Body	Configuration file	Configuration file with the following properties: Content-Disposition: form-data; name="file"; filename="data.json" Content-Type: text/plain		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.22 Reset configuration

Request				
Signature	Method	resetConfiguration		
	URI	POST /application/administration/configuration/reset		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.23 Update

Request				
Signature	Method	update		
	URI	POST /application/administration/update		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	Content-Type: multipart/form-data; boundary=		
	Authorization	Bearer <token>		
Body	firmware	Binary firmware update file with the following properties: Content-Disposition: form-data; name="file"; filename="firmware.ipk" Content-Type: application/octet-stream		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.24 Restore

Request				
Signature	Method	restore		
	URI	POST /application/administration/restore/{restoreType}		
Parameters	Name	Type	Mandatory	Description
	restoreType	String	no	"backup" or "stock"
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.25 Reboot

Request				
Signature	Method	reboot		
	URI	POST /application/administration/reboot		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.26 Halt

Request				
Signature	Method	halt		
	URI	POST /application/administration/halt		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.27 Set password

Request				
Signature	Method	setPassword		
	URI	PUT /application/administration/password		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	passwordDto	PasswordDto		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	204	No Content		
	4xx, 5xx	ErrorDto		

1.2.28 Get version

Request				
Signature	Method	getVersion		
	URI	GET /application/administration/version		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	VersionDto		
	4xx, 5xx	ErrorDto		

1.2.29 Get status

Request				
Signature	Method	getStatus		
	URI	GET /application/administration/status		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body				
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location			
Parameters	Name	Type	Description	
Body	Status	Value		
	200	StatusDto		
	4xx, 5xx	ErrorDto		

2. Data Transfer Object

2.1 UserDto

Field	Type	Description
login	String	Login
password	String	Password

2.2 JWTDto

Field	Type	Description
token	String	Token value
token_type	String	Token type {Bearer}
expiration_date	Integer	Expiration date (EPOCH date in sec)

2.3 LANConfigurationDto

Field	Type	Description
ipv4	String	IPv4 configuration type {dhcp, static, off}
ipv4_address	String	IPv4 address
ipv4_netmask	String	IPv4 netmask or prefix length
ipv4_gateway	String	IPv4 gateway

2.4 WLANConfigurationDto

Field	Type	Description
available	Boolean	True: WLAN available; False: WLAN not available (Read only)
name	String	Network name
passphrase	String	Password
ipv4	String	IPv4 configuration type {dhcp, static, off}
ipv4_address	String	IPv4 address
ipv4_netmask	String	IPv4 netmask or prefix length
ipv4_gateway	String	IPv4 gateway

2.5 GSMConfigurationDto

Field	Type	Description
available	Boolean	True: GSM available; False: GSM not available (Read only)
enable	Boolean	True: on; False: off
operator	Object	Operator
operator.mcc	String	Mobile Country Code
operator.mnc	String	Mobile Network Code
apn	String	APN
pin_code	String	PIN code
user	String	User
password	String	Password

2.6 OpenVPNDto

Field	Type	Description
enable	Boolean	Enable state of OpenVPN service: - True: enable - False: disable
status	Boolean	Status of OpenVPN service: - True: started - False: stopped

2.7 OpenVPNFileListDto

Field	Type	Description
certificate_file_name	String	OpenVPN certificate file name If empty the file is missing
certificate_archive_file_name	String	OpenVPN certificate archive file name If empty the file is missing
configuration_file_name	String	OpenVPN configuration file name If empty the file is missing

2.8 TimeZonesDto

Field	Type	Description
timezones	Object[] of string	Array of time zones

2.9 TimeDto

Field	Type	Description
ntp	Object	NTP object
ntp.polling	Unsigned integer	NTP polling period
ntp.address_1	String	NTP address 1
ntp.address_2	String	NTP address 2
timezone	String	Timezone
date_time	String	Date/time in YYYYmmddHHMMSS format: - YYYY: year, 0000 to 9999 - mm: month, 01 to 12 - dd: day, 01 to 12 - HH: hour, 00 to 23 - mm: minute, 00 to 59 - ss: second, 00 to 59

2.10 PasswordDto

Field	Type	Description
password	String	Password

2.11 VersionDto

Field	Type	Description
firmware_version	String	Firmware version
hardware_serial_number	String	Hardware serial number

2.12 StatusDto

Field	Type	Description
network	Object	Network
network.lan	Object	LAN
network.lan.status	Boolean	LAN status
network.lan.hardware_address	String	LAN hardware address
network.lan.address	String	LAN address

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network.lan.broadcast	String	LAN broadcast
network.lan.netmask	String	LAN netmask
network.wlan	Object	WLAN
network.wlan.status	Boolean	WLAN status
network.wlan.hardware_address	String	WLAN hardware address
network.wlan.address	String	WLAN address
network.wlan.broadcast	String	WLAN broadcast
network.wlan.netmask	String	WLAN netmask
network.gsm	Object	GSM
network.gsm.status	Boolean	GSM status
network.gsm.address	String	GSM address
network.gsm.broadcast	String	GSM broadcast
network.gsm.netmask	String	GSM netmask

2.13 ErrorDto

Field	Type	Description
code	String	Message code: { ERROR_BAD_PARAMETER, ERROR_INTERNAL, ERROR_INVALID_JSON, ERROR_LICENSE ERROR_LOGIN, ERROR_NOT_IMPLEMENTED, WARNING_SYSTEM_BUSY, WARNING_INVALID_FIRMWARE }
message	String	Error message
parameters	Object[]	The array objects used to build the message

2.14 PaginatedDto

Field	Type	Description
page	Integer	Page number [1..n]
nb_pages	Integer	Number of pages
page_size	Integer	The page size
count	Integer	The number of elements per page
total_count	Integer	The total number of elements

END OF DOCUMENT

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