



SPECIFICATIONS KEROS WEB SERVICES

	Written by	Approved by	Validated by
Name	Christophe Ronco	Sylvain FAVE	Thibault JAMARD
Entity	KLK/KIS/DRD/ Gateways	KLK/KIS/DRD/Core Network	KLK/KIS/DRD/Validation
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HISTORY

Date	Modification	Author	Version
2017/03/23	- Initial release - Replace all web services /application/keros with /application/administration - Rename DTO : LANDto → LANConfigurationDto, WLANDto → WLANConfigurationDto	Mickaël Garin	0.1
2017/04/27	- Update upgrade web service (renamed to update) - Add restore web service	Mickaël Garin	0.2
2017/04/27	Update update web service	Mickaël Garin	0.3
2017/05/02	Add getVersion web service	Mickaël Garin	0.4
2017/05/04	Fix login, getVersion and getWLANConfiguration web service display	Mickaël Garin	0.5
2017/05/16	Change HTTP request type for update (PUSH → POST)	Valentin Cupif	0.6
2017/06/08	Remove useless parameter "fw_name" in update web service	Mickaël Garin	0.7
2017/06/08	Add getGSMConfiguration and setGSMConfiguration web services	Mickaël Garin	0.8
2017/06/28	Update GSMConfigurationDto	Mickaël Garin	0.9
2017/06/	- Update LANConfigurationDto and	Mickaël	0.10

30	WLANConfigurationDto: add "off" choice in ipv4 field - Add "enable" field in GSMConfigurationDto - Add field "hardware_serial_number" in VersionDto	Garin	
2017/07/03	Update ErrorDto	Mickaël Garin	0.11
2017/08/21	- Move getNetworkConfiguration, setNetworkConfiguration, getTimeZones, getTimeConfiguration, setTimeConfiguration, NetworkDto, TimeZonesDto and TimeDto from iFemtoCell/SPN web services specifications to this document - Remove source from TimeDto - Remove bearer from NetworkDto - Add following web services: - uploadOpenVpnConfiguration - getLog - downloadLog - downloadConfiguration - uploadConfiguration - Update NetworkDto	Mickaël Garin	0.12
2017/08/25	Fix getLog and downloadLog errors	Mickaël Garin	0.13
2017/11/09	Document approved	Mickaël Garin	0.14
2017/11/10	Document validated	Mickaël Garin	1.0
2017/10/02	Add downloadOpenVpnConfiguration web service	Mickaël Garin	1.1
2017/10/12	Add resetConfiguration and halt web services	Mickaël Garin	1.2
2018/01/04	- Update ErrorDto - Update setTimeConfiguration web service description - Add field date_time to update TimeDto	Mickaël Garin	1.3
2018/01/16	Document approved	Mickaël Garin	1.4
2018/01/18	- Update NetworkDTO to OpenVPNDTO - Update GetOpenVpnConfiguration - Update SetOpenVpnConfiguration - Update downloadOpenVpnConfiguration - Update uploadOpenVpnConfiguration - Add uploadOpenVpnCertificate	Valentin Cupif	1.5

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	<ul style="list-style-type: none"> - Add downloadOpenVpnCertificate - Add uploadOpenVpnCertificatesArchive 		
2018/01/22	<ul style="list-style-type: none"> - Update PaginatedDto and JWTDto (remove camel case fields) - Remove openvpn object in OpenVPNDto and remove camel case fields 	Mickaël Garin	1.6
2018/01/23	<ul style="list-style-type: none"> - Split OpenVPNDto into OpenVPNDto and OpenVPNFileListDto - Add OpenVPNDto - Add getOpenVPNWorkingFileList 	Valentin Cupif	1.7
2018/02/01	<ul style="list-style-type: none"> - Update OpenVPNFileListDto (remove "s") - Rename uploadOpenVPNCertificatesArchive to uploadOpenVPNCertificateArchive and update web service (remove "s") - Add a note in web services setLANConfiguration, setWLANConfiguration and setGSMConfiguration 	Mickaël Garin	1.8
2018/02/06	Document approved	Mickaël Garin	1.9
2018/02/08	Document validated	Mickaël Garin	2.0
2018/03/14	<ul style="list-style-type: none"> - Add and modify Wi-Fi relative web services and DTO: <ul style="list-style-type: none"> - Add connect web service - Add remove web service - Update WLANConfigurationDto - Add WLANSERVICEdto - Add WLANConnectDto - Add GetStatus web service and StatusDto - Remove following web services: <ul style="list-style-type: none"> - getOpenVPNConfiguration - setOpenVPNConfiguration - getOpenVPNWorkingFileList - downloadOpenVPNConfiguration - uploadOpenVPNConfiguration - downloadOpenVPNCertificate - uploadOpenVPNCertificate - uploadOpenVPNCertificateArchive - getLog - downloadLog - downloadConfiguration - uploadConfiguration - resetConfiguration - Remove following DTO: 	Mickaël Garin	3.1

	<ul style="list-style-type: none"> - OpenVPNDto - OpenVPNFileListDto - Remove ntp.polling field from TimeDto 		
2018/03/15	Update setPassword web service and add PasswordDto	Mickaël Garin	3.2
2018/03/16	Document approved	Mickaël Garin	3.3
2018/03/21	Document validated	Mickaël Garin	4.0
2018/04/20	<ul style="list-style-type: none"> - Add following web services: <ul style="list-style-type: none"> - addGSMOperator - deleteGSMOperator - updateGSMOperator - Add following DTO: <ul style="list-style-type: none"> - GSMOperatorDto - Update following DTO: <ul style="list-style-type: none"> - GSMConfigurationDto - TimeDto - LANConfigurationDto 	Mickaël Garin	4.1
2018/04/27	<ul style="list-style-type: none"> - Update following DTO: <ul style="list-style-type: none"> - StatusDTO 	Mickaël Garin	4.2
2018/05/28	<ul style="list-style-type: none"> - Update following DTO: <ul style="list-style-type: none"> - LANConfigurationDto (add ipv4_dns field) - WLANServiceDto (add error field) - StatusDto (update systems fields) 	Mickaël Garin	4.3
2018/05/29	Move pin_code field from GSMOperatorDto to GSMConfigurationDto	Mickaël Garin	4.4
2018/05/31	<ul style="list-style-type: none"> - Remove network.gsm.broadcast from StatusDTO - Add id field in GSMOperatorDto 	Mickaël Garin	4.5
2018/07/18	<ul style="list-style-type: none"> - Update VersionDto (Add platform_type field) - Set document as generic for iBTS and iFemtoCell and define WLAN function as specific to iFemtoCell - Update StatusDto (Remove Keros disk field) 	Arnaud Lebert	4.6
2018/07/18	<ul style="list-style-type: none"> - Update TimeDto (add direction), - Update VersionDto (add possible values of platform_type) - Remove PaginatedDto. 	Arnaud Lebert	4.7
2018/07/19	Document validated	Arnaud Lebert	5.0
2018/07/24	- Update LANConfigurationDto (update ipv4_dns field)	Arnaud Lebert	5.1
2018/07/24	Document validated	Arnaud Lebert	6.0

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2019/03/07	- Apply new Kerlink template - Replace all iFemtocell occurrences with Keros	Mickaël Garin	6.1
2019/03/18	Document approved and validated	Mickaël Garin	7.0
2019/04/19	- Update GetVersion (VersionDto modified, added CapabilitiesDto and NetworkCapabilitiesDto) - Update WLANSERVICE DTO - Modify method connect - Delete method remove - Add method disconnect - Add method configureWLANSERVICE and removeWLANSERVICE (and corresponding DTO)	Christophe Ronco	7.1
2019/05/24	- Document approved and validated	Christophe Ronco	8.0
2022/06/14	- Add Read/Create/Update/Delete for DefaultOperator Ofono	Malo Le Quéré	8.1
2022/10/17	- Tell which fields are present in VersionDto if not logged.	Christophe Ronco	8.2
2022/11/21	- Give more precise error codes to login request	Christophe Ronco	8.3
2022/12/12	- Change network capabilities to add prevent_disable fields	Christophe Ronco	8.4
2023/05/02	- Add GSM signal strength	Christophe Ronco	8.5
2023/05/16	- Add methods to get logs	Christophe Ronco	8.6

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REFERENCE

Reference	Document / link	Description

GLOSSARY

Abbrevia tion	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 web services provided by KerOS firmware.

1. KerOS REST API

1.1 GetVersion

The GetVersion web service is the only service accessible before login.

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		
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 Login

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

This request will return a 403 error in case of wrong login and/or password. This request will return a 429 error if too many wrong attempts were recently done by the same IP address. After 5 failed login attempts from

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the same IP, this error will be returned (without checking given login/password) during 5 minutes.

Note 1: the token has an expiration date that can be defined in the properties file.

Note 2: after a board reboot, a new login will be necessary (token will not be usable anymore).

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		

1.3 Configuration and administration

1.3.1 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		

1.3.2 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.

1.3.3 Get Wi-Fi (WLAN) configuration

Return WLAN availability and a list of services present and/or configured.

Request				
Signature	Method	getWLANConfiguration		
	URI	GET /application/administration/wlan		
Parameters	Name	Type	Mandato ry	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorizati on	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		

1.3.4 Set Wi-Fi (WLAN) configuration

Allow to enable/disable WLAN.

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	LANConfigurationDto	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.

1.3.5 Configure Wi-Fi (WLAN) services

Configure service whether it is scanned or not.

Request				
Signature	Method	configureWLANService		
	URI	POST /application/administration/wlan/service		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	WLANServiceConfigurationDto	WLANServiceConfigurationDto		
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		

1.3.6 Remove Wi-Fi (WLAN) service configuration

Remove service configuration. If service is connected, it will be disconnected first.

Request				
Signature	Method	removeWLANService		
	URI	DELETE /application/administration/wlan/service/{service_id}		
Parameters	Name	Type	Mandatory	Description
	service_id	string	YES	Service identifier
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	

1.3.7 Connect Wi-Fi (WLAN)

Connect to an access point in states "idle" or "failure".

Request				
Signature	Method	connect		
	URI	POST /application/administration/wlan/connect/{service_id}		
Parameters	Name	Type	Mandatory	Description
	service_id	string	YES	Service identifier
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	WLANConnectDto	WLANConnectDto. Leave field passphrase blanked to connect to an already configured access point		
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.

1.3.8 Disconnect Wi-Fi (WLAN) service

Disconnect a connected (state ready or online) WLAN service (does not remove configuration).

Request				
Signature	Method	disconnect		
	URI	POST /application/administration/wlan/disconnect/{service_id}		
Parameters	Name	Type	Mandatory	Description
	service_id	string	YES	Service identifier
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		

1.3.9 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		

1.3.10 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.

1.3.11 Add GSM operator

Used to declare a new GSM operator.

Request				
Signature	Method	addGSMOperator		
	URI	POST /application/administration/gsm/operator		
Parameters	Name	Type	Mandatory	Description
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	GSMOperatorDto	GSMOperatorDto		
Response				
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Location	/application/administration/gsm/operator/{operatorId}		
Parameters	Name	Type	Description	
	operatorId	String	Operator identifier	
Body	Status	Value		
	201	Created		
	4xx, 5xx	ErrorDto		

1.3.12 Delete GSM operator

Used to delete a GSM operator.

Request				
Signature	Method	deleteGSMOperator		
	URI	DELETE /application/administration/gsm/operator/{operatorId}		
Parameters	Name	Type	Mandatory	Description
	operatorId	String	Yes	Operator identifier
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		

1.3.13 Update GSM operator

Used to update GSM operator parameters.

Request				
Signature	Method	updateGSMOperator		
	URI	PUT /application/administration/gsm/operator/{operatorId}		
Parameters	Name	Type	Mandatory	Description
	operatorId	String	Yes	Operator identifier
Header	Name	Value		
	Content-Type	application/vnd.kerlink.iot-v1+json		
	Authorization	Bearer <token>		
Body	GSMOperatorDto	GSMOperatorDto		
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		

1.3.14 *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		

1.3.15 *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		

1.3.16 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		

1.3.17 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		

1.3.18 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		

1.3.19 *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		

1.3.20 *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		

1.3.21 *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		

1.3.22 *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		

1.3.23 Start log collection

Request				
Signature	Method	startLogCollection		
	URI	POST /application/administration/startlogcollection		
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		

1.3.24 *Get log status*

Request				
Signature	Method	getLogStatus		
	URI	GET /application/administration/logstatus		
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	LogStatusDto		
	4xx, 5xx	ErrorDto		

1.3.25 *Get log file*

Request				
Signature	Method	getLogFile		
	URI	GET /application/administration/logfile		
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/octet-stream		
	Content-Disposition	attachment; filename=XXX		
Parameters	Name	Type	Description	
Body	Status	Value		
	200	File Data		
	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	Direction	Description
available	Boolean	Get	LAN availability
enable	Boolean	Get/Set	True: on; False: off
ipv4	String	Get/Set	IPv4 configuration type {dhcp, static, off}
ipv4_address	String	Get/Set	IPv4 address
ipv4_netmask	String	Get/Set	IPv4 netmask or prefix length
ipv4_gateway	String	Get/Set	IPv4 gateway
ipv4_dns	String	Get/Set	IPv4 DNS list separated with comma

2.4 WLANConfigurationDto

Field	Type	Direction	Description
available	String	Get	Wi-Fi availability

enable	Boolean	Get/ Set	True: on; False: off
services	WLANServiceDto[]	Get	Wi-Fi service list

2.5 WLANServiceDto

Field	Type	Description
id	String	Unique identifier
name	String	Wi-Fi service name
state	String	Wi-Fi service state ("unavailable", "idle", "failure", "association", "configuration", "ready", "disconnect" or "online")
error	String	If not empty, indicates an error
strength	Integer	Signal strength
security	String	Security
already_configured	Boolean	Already configured

State "unavailable" means service has not been detected during WiFi scan (it should be configured). Other state values directly come from Connman.

2.6 WLANServiceConfigurationDto

Field	Type	Description
name	String	Wi-Fi service name
passphrase	String	Passphrase

2.7 WLANConnectDto

Field	Type	Description
passphrase	String	Passphrase

2.8 GSMConfigurationDto

Field	Type	Direction	Description
available	Boolean	Get	True: GSM available; False: GSM not available (Read only)
enable	Boolean	Get/Set	True: on; False: off
pin_code	String	Get/Set	PIN code

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operators	GSMOperatorDto[]	Get	List of declared operators
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2.9 GSMOperatorDto

Field	Type	Description
id	Integer	Unique identifier
mcc	String	Mobile Country Code or None for global operator
mnc	String	Mobile Network Code or None for global operator
apn	String	APN
user	String	User
password	String	Password

2.10 TimeZonesDto

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

2.11 TimeDto

Field	Type	Direction	Description
mode	String	Get/Set	- "auto": automatic date and time with NTP - "manual": manual configuration
ntp	Object	Get/Set	NTP object
ntp.address_1	String	Get/Set	NTP address 1
ntp.address_2	String	Get/Set	NTP address 2
timezone	String	Get/Set	Timezone
date_time	String	Get/Set	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

2.12 PasswordDto

Field	Type	Description
password	String	Password

2.13 VersionDto

Field	Type	Description
firmware_version	String	Firmware version (field present only if authenticated)
hardware_serial_number	String	Hardware serial number (field present only if authenticated)
ui_title	String	Device platform name that should be displayed on login page
capabilities	CapabilitiesDto	Board capabilities (field present only if authenticated)

2.14 CapabilitiesDto

Field	Type	Description
network	NetworkCapabilitiesDto	Network hardware capabilities
gps	Boolean	True if GPS is possible on this product

2.15 NetworkCapabilitiesDto

Field	Type	Description
wifi	NetworkTechCapabilitiesDto	WiFi capabilities
gsm	NetworkTechCapabilitiesDto	Gsm capabilities
ethernet	NetworkTechCapabilitiesDto	Ethernet Capabilities

2.16 NetworkTechCapabilitiesDto

Field	Type	Description
present	Boolean	True if technology is usable on this product (corresponding hardware exists)
prevent_disable	Boolean	True if webui should not allow end user to enable/disable technology

2.17 StatusDto

Field	Type	Description
system	Object	System
system.cpu	Float	CPU usage
system.ram	Float	RAM usage
system.user_volume_usage	Float	User volume usage
system.temperature	Float	Temperature
network	Object	Network
network.lan	Object	LAN
network.lan.status	Boolean	LAN status
network.lan.hardware_addresses	String	LAN hardware address
network.lan.address	String	LAN address
network.lan.broadcast	String	LAN broadcast
network.lan.netmask	String	LAN netmask
network.wlan	Object	WLAN (iFemtoCell only)
network.wlan.status	Boolean	WLAN status (iFemtoCell only)
network.wlan.hardware_addresses	String	WLAN hardware address (iFemtoCell only)
network.wlan.address	String	WLAN address (iFemtoCell only)
network.wlan.broadcast	String	WLAN broadcast (iFemtoCell only)
network.wlan.netmask	String	WLAN netmask (iFemtoCell only)
network.gsm	Object	GSM
network.gsm.status	Boolean	GSM status
network.gsm.address	String	GSM address
network.gsm.netmask	String	GSM netmask
network.gsm.strength	String	GSM signal strength

2.18 LogStatusDto

Field	Type	Description
status	String	"collect ongoing", "log file ready" or "no log file"

2.19 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

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