OKULO, MHOM & RING

INTRODUCTION

Despite the attentive and careful realization, update and integration of the contents and integrations in this handbook, these contents and information may contain typing mistakes, inaccuracies or inconsistencies for whom Keyless® does not provide any guarantee - neither explicit nor implicit - not even by way of reliability or expectation. In particular, we do not guarantee completeness, exhaustiveness and compliance with the current organization, company structure or typology, characteristics, marketability and fitness for purpose of the products, services and activities of Keyless®, who is available to provide any relevant information.

Keyless® reserves the right to make adjustments and changes to the information contained in the handbook without prior notice, as well as to vary and to change the products, the services and the activities described herein, without it rising any kind of rights for a third-party.

TERMS AND CONDITIONS

Keyless® API LICENSE AGREEMENT (Last revision February 2024)
This is a legal agreement (the "Agreement") between the you and, if applicable, your company, organization or other legal entity for whom you have authority to enter into this Agreement ("Developer") and Keyless® ("Keyless®"), for use of certain of Keyless® Application Programming Interfaces ("API") that enable Developer to provide additional functionality for users of Keyless® products or to integrate access to certain Keyless® products into Developer's product offerings. By clicking "I agree to the terms of service," or otherwise accessing the API, Developer indicates its acceptance of this Agreement.

1.1 Offering Integration; API Documentation. During the term of this Agreement, Developer may use the API to provide capabilities or integrations that leverage one or more the Keyless® products available at www.keyless.it (the "Keyless® Products") into additional functionality, products, websites and/or services that are offered by Developer (the "Offerings"), subject to the terms and conditions of this Agreement. Keyless® may make available to Developer the Keyless® API and any corresponding reference materials (including API documentation, wrapper libraries, sample code and API updates and changes) and source code, which may be amended or revised by Keyless® at any time (the "Keyless® API Documentation"), for use for such purposes during the term of this Agreement.

1.2. Developer Information; Consent to Contact. Developer shall provide Keyless® with Developer's contact information and hereby consents to Keyless® sharing such information with any User (defined below) or prospective User of the Offering. Developer shall update the contact information, as needed, such that Keyless® always has current contact information for the Developer and the Offering. By entering into this Agreement, Developer consents to receiving phone calls, emails, texts or any other type of messages from Keyless® to inform it of changes or additions to the Keyless® Products, this Agreement, the API or the API Documentation and any other matter related to the foregoing and for general marketing purposes (Developer may unsubscribe from marketing messages at any time, but not transactional messages). Keyless® may, but is not obligated to, monitor or record any telephone conversations and chat texts for quality control purposes, for purposes of training employees and for Keyless®'s own protection.

1.3 User Terms and Conditions. Developer acknowledges and agrees that users of the Offerings ("Users") must be Keyless® account holders for a Keyless® Product in order to access and use such Keyless® Product through the Offerings. Developer further acknowledges and agrees that all Users' access and use of the Keyless® Products is subject, in all respects, to the User Agreements. Developer hereby agrees to either: (i) require all Users to agree to the User Agreements prior to permitting such users to access the Keyless® Products through the Offerings; or (ii) only provide access to Keyless® Products in a manner that requires Users to register with Keyless® directly and accept the User Agreements. Developer further agrees that, to the extent Developer uses the Keyless® Products on its own behalf or on behalf of its customers, Developer's use shall be subject to the User Agreements in all respects. Developer agrees that it may use the API to add or update only customers that have been obtained by the User using permission-based standards that meet standards described in the User Agreements. The "User Agreements" are defined as Keyless® Web Site and Products Terms and Conditions of Use, Privacy Statement, Anti-Spam Policy, and any other acceptable use policy, content restrictions, user agreements, and other terms and conditions governing use of the Keyless® Products, generally available through the Keyless® websites, as each of the foregoing may be amended by Keyless® from time to time in its sole discretion.

1.4 Privacy Policy; Customer Accounts. Developer represents, warrants and covenants that, in its operation of the Offerings, it will maintain and comply with a privacy policy that complies with applicable law and that accurately discloses how Developer collects, uses, stores, and discloses data provided by Users and third parties. Developer will post its privacy policy in the Offerings. Further, if Developer has any login, customer or other account information relating to a User's account with Keyless®, Developer shall only use such information for the purposes expressly authorized by the applicable User.

1.5 Responsibility for Offerings. Developer is solely responsible for the Offerings and Keyless® shall have no liability or obligations with respect to the same (including support obligations). Developer represents, warrants and covenants that Developer has and will at all times maintain the right to provide all Offerings provided by Developer hereunder and that the Offerings (and any other materials provided to Keyless® or Users) do not infringe the intellectual property or other rights of any third parties or contain viruses, worms, malware or any other harmful scripts or code. Developer agrees to provide support for its Offerings. Developer shall ensure that all Offerings that access the Keyless® Products comply with all applicable laws and regulations. Developer agrees to place the following notice prominently in the Offering: "This product uses the Keyless® API but is not endorsed or certified by Keyless®."

1.6 Fees. The API are currently provided within an Okulo - Okulo PLUS - Okulo PICO Plafond Subscription.

2. Licenses, Responsibilites and Restrictions.

2.1 License. Keyless® hereby grants to Developer a revocable, non-exclusive, non-transferable, limited license to use and integrate the API into the Offering for the sole purpose of developing the integration to the Offering and allowing access to the Keyless® Products via the Offering. Once integrated into the Offering, access to the API may then be distributed to the Users as an integrated part of the Offering.

2.2 Responsibilities; Restrictions. Developer shall implement the API in accordance with the Keyless® API Documentation. Developer may not access the API if Developer is a competitor of Keyless®, as determined by Keyless® in its reasonable discretion, or to replicate or attempt to replicate the essential user experience of the Keyless® Products. Except as expressly provided herein, Developer has no other right to install, integrate, use, reproduce, sublicense or distribute API.

Developer shall not: (i) modify, reverse engineer, decompile, or otherwise alter or attempt to gain access to the API or the Keyless® Products in a manner not in accordance with this Agreement, (ii) use or enable its customers to use the API for the purposes of testing or comparison of Keyless® Products or for any purpose competitive with Keyless® Products, or (iii) perform bulk operations with API that are designed for single contact operations or perform single contact operations with API that are designed for performing bulk operations. Developer agrees to protect the security and confidentiality of any credentials and API keys disclosed by Keyless® hereunder.

2.3 Ownership; No Other Licenses. The API contained in the Offering shall remain the sole and exclusive intellectual property of Keyless® and Developer shall reasonably assist Keyless® in protecting such ownership. No other licenses or rights in any of Keyless®'s intellectual property rights are granted hereunder. For example and without limitation, no rights are granted to use Keyless®'s logos or trademarks; provided, however that Developer may refer to the names of the Keyless® Products solely for the purpose of describing the Offering.

2.4 Right to Developer's Ideas, Logo and Name. Developer hereby grants to Keyless® a non-exclusive, royalty-free, irrevocable, perpetual license (i) to use any ideas that Keyless® learns from observing Developer's Offerings or other use of the API or any feedback provided by Developer and (ii) to use Developer's name and logo for the purpose of disclosing that Developer is providing Offerings using the API and for promotion of the availability of the API.

3. Non-Exclusivity. Developer acknowledges that Developer's right to use and demonstrate the Keyless® Products hereunder is non-exclusive, and that Keyless® reserves the right to sell and distribute any of its services to any customers in the world, and to appoint any third party to do so, without giving Developer notice thereof and without incurring any liability to Developer therefore. Keyless® reserves the right to develop and extend its products and capabilities without regard to whether those products compete with or invalidate any Developer Offering. Unless otherwise mutually agreed by the parties, Keyless® may contact directly any User for the purpose of marketing and selling the Keyless® Products. Unless otherwise mutually agreed by the Parties, in the event that such User elects to purchase the Keyless® Products, Keyless® shall have no obligation to Developer with respect to such transaction.

4. Indemnification; Limitation of Liability; Disclaimer.

4.1 Indemnification. Developer shall defend, indemnify and hold Keyless® and its underlying service providers, business partners, third-party suppliers and providers, members of its network, account providers, licensors, officers, directors, employees, distributors and agents harmless from and against any lawsuit, claim, damage, liability, or expense (including reasonable attorneys' fees) incurred by Keyless® as a result of any third-party claim against Keyless® resulting from or relating to the Offering, Developer's use of the API, Keyless®'s use of the Developer's marks, the content on Developer's website, Developer's unauthorized marketing, promotion, use or distribution of the Keyless® Products, Developer's failure to abide by the applicable terms of any User Agreement, Developer's breach of this Agreement, or the infringement or misappropriation of any patent, copyright, trademark, or other intellectual property right of any third party.

4.2 Limitation of Liability. EXCEPT WITH RESPECT TO DEATH OR PERSONAL INJURY DUE TO THE NEGLIGENCE OF Keyless®, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, TORT, CONTRACT, OR OTHERWISE, SHALL Keyless® OR ANY OF ITS UNDERLYING SERVICE PROVIDERS, BUSINESS PARTNERS, THIRD PARTY SUPPLIERS AND PROVIDERS AND MEMBERS OF ITS NETWORK, ACCOUNT PROVIDERS, LICENSORS, OFFICERS, DIRECTORS, EMPLOYEES, DISTRIBUTORS OR AGENTS (COLLECTIVELY REFERRED TO FOR PURPOSES OF THIS SECTION AS "Keyless®") BE LIABLE TO DEVELOPER OR ANY OTHER PERSON FOR ANY MONEY DAMAGES, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, COVER, RELIANCE OR CONSEQUENTIAL DAMAGES, EVEN IF Keyless® SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY, AND REGARDLESS OF THE FORM OF ACTION (WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY OR OTHERWISE), THE MAXIMUM AGGREGATE LIABILITY OF Keyless® TO DEVELOPER ARISING IN CONNECTION WITH THIS AGREEMENT SHALL BE LIMITED TO Euro 100,00. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS LIMITATION AND EXCLUSION MAY NOT APPLY.

Developer agrees that Keyless® has made the API available and entered into this Agreement in reliance upon the disclaimers of warranty and the limitations of liability set forth herein, that they reflect an allocation of risk between the parties (including the risk that a contract remedy may fail of its essential purpose and cause consequential loss), and that they form an essential basis of the bargain between the parties.

4.3 Disclaimer. DEVELOPER EXPRESSLY AGREES THAT THE API AND THE Keyless® PRODUCTS ARE PROVIDED ON AN "AS IS" AND "AS AVAILABLE" BASIS. USE OF THE API OR THE Keyless® PRODUCTS AND ANY RELIANCE BY DEVELOPER UPON THE API OR THE Keyless® PRODUCTS, INCLUDING ANY ACTION TAKEN BY DEVELOPER BECAUSE OF SUCH USE OR RELIANCE, IS AT DEVELOPER'S SOLE RISK. Keyless® DOES NOT WARRANT THAT THE USE OF THE API OR THE Keyless® PRODUCTS WILL BE UNINTERRUPTED OR ERROR FREE, NOR DOES Keyless® MAKE ANY WARRANTY AS TO THE RESULTS THAT MAY BE OBTAINED FROM USE OF THE SAME. Keyless® DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. NO STATEMENT OR INFORMATION, WHETHER ORAL OR WRITTEN, OBTAINED FROM Keyless® IN ANY MEANS OR FASHION SHALL CREATE ANY WARRANTY NOT EXPRESSLY AND EXPLICITLY SET FORTH IN THIS AGREEMENT. Keyless® MAY MODIFY OR TERMINATE OR RESTRICT ACCESS TO THE API AT ANY TIME WITHOUT NOTICE.

Keyless® SHALL HAVE NO LIABILITY OF ANY NATURE WHATSOEVER FOR DEVELOPER'S COMPLIANCE WITH OR BREACH OF ANY LICENSE OR TERMS AND CONDITIONS OF ANY THIRD PARTIES OR THIRD PARTY SERVICES.
NO CLAIM MAY BE ASSERTED BY DEVELOPER AGAINST Keyless® MORE THAN 12 MONTHS AFTER THE DATE OF THE CAUSE OF ACTION UNDERLYING SUCH CLAIM. DEVELOPER'S SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OR NONPERFORMANCE OF THE API OR THE PRODUCTS SHALL BE FOR Keyless® TO USE COMMERCIALLY REASONABLE EFFORTS TO ADJUST OR REPAIR THE API OR THE PRODUCTS.

5. Term; Termination. Developer may terminate this Agreement at any time by ceasing to provide Offerings and sending a confirmatory e-mail to the Web Services Coordinator (assistenza@Keyless®.it). Keyless® may terminate this Agreement and/or disable Developer's ability to provide Offerings via the API, in each case at any time with or without cause, and with or without notice. Keyless® shall have no liability to Developer or any third party because of such termination or action. This Agreement terminates automatically if Developer breaches any term of this Agreement. The following provisions shall survive expiration or termination of this Agreement: Sections 1 (Enabling Access; Developer Obligations), 3 (Non-Exclusivity), 4 (Indemnification; Limitation of Liability; Disclaimer), 5 (Term; Termination) and 7 (Miscellaneous).

6. Restricted Persons; Export of Products or Technical Data. Developer hereby warrants that Developer is not a Restricted Person. For purposes of this Agreement, Developer is a Restricted Person if Developer or any officer, director, or controlling shareholder of Developer is (i) a national of or an entity existing under the laws of any country with which Italian persons are prohibited from engaging in transactions, as may be determined from time to time by Italy Treasury Department; (ii) designated as a Specially Designated National or institution of primary money laundering concern by the Italy State Treasury Department; (iii) listed on the Denied Persons List or Entity List by Italy Commerce Department; (iv) engaged in nuclear, missile, chemical or biological weapons activities to which Italian persons may not contribute without a Italian Government license; or (v) owned, controlled, or acting on behalf of a Restricted Person.

If Developer becomes a Restricted Person during the term of this Agreement, Developer shall notify Keyless® (info@Keyless®.it) within twenty-four (24) hours, and Keyless® shall have the right to terminate any further obligations to Developer, effective immediately and with no further liability to Developer, but without prejudice to Developer's outstanding obligations to Keyless®. Developer agrees that Developer shall not utilize the Products to conduct or facilitate any transaction with any Restricted Person, except as may be expressly authorized in advance in writing by the Italian Government. Developer may not remove or export from the Italy or allow the export or re-export of the Products, or any direct product thereof, including technical data, in violation of any restrictions, laws, or regulations of Italy or any other applicable country.

7. Miscellaneous

7.1 Full Force and Effect. If any provision of this Agreement is found to be unenforceable or invalid, that provision will be limited or eliminated to the minimum extent necessary so that this Agreement will otherwise remain in full force and effect and enforceable.

7.2 Entire Agreement. Keyless® and Developer agree that this Agreement is the complete and exclusive statement of the mutual understanding of the parties and supersedes and cancels all previous written and oral agreements, communications, and other understandings relating to the subject matter of this Agreement, and that this Agreement may be amended from time to time by Keyless® with or without advance notice to Developer. No delay or omission by either party in exercising any right or remedy under this Agreement or existing at law or equity shall be considered a waiver of such right or remedy. In the event of any inconsistency between this Agreement and the User Agreements, this Agreement controls.

7.3 Assignment. Developer may not assign any of its rights hereunder. Keyless® may assign all rights to any other individual or entity in its sole discretion.

7.4 Further Assurances. Developer agrees to execute any and all documents and take any other actions reasonably required to effectuate the purposes of this Agreement.

7.5 Third Party Beneficiaries. Keyless® underlying service providers, business partners, third-party suppliers and providers, members of its network, account providers, licensors, officers, directors, employees, distributors and agents are expressly made third party beneficiaries of this Agreement. Except as set forth in the immediately preceding sentence, nothing express or implied in this Agreement is intended to confer, nor shall anything herein confer, upon any person other than the parties and the respective permitted successors or assigns of the parties, any rights, remedies, obligations or liabilities whatsoever.

7.6 Titles. The titles of the paragraphs of this Agreement are for convenience only and have no legal or contractual effect.

7.7 No Agency. Except as expressly set forth herein, no agency, partnership, joint venture, or employment is created as a result of this Agreement, and Developer does not have any authority of any kind to bind Keyless® in any respect whatsoever.

7.8 Attorney Fees. In any action or proceeding to enforce rights under this Agreement, the prevailing party will be entitled to recover its costs and attorneys' fees.

7.9 Authority. Developer represents that Developer has the full power, capacity and authority to accept this Agreement. If Developer is accepting on behalf of its employer or another entity, Developer represents that it has full legal authority to bind its employer or such entity to this Agreement.

7.10 Governing Law and Legal Actions. This Agreement shall be governed by the laws of Italy, and all claims relating to or arising out of this Agreement, or the breach thereof, whether sounding in contract, tort or otherwise, shall likewise be governed by the laws of the State of Italy, in each case, without regard to its choice or law or conflict of laws provisions. All legal actions in connection with this Agreement shall be brought in the state or federal courts located in Treviso, Italy.

7.11 Equitable Relief. Developer agrees that any violation or threatened violation of this Agreement may cause irreparable injury to Keyless®, entitling Keyless® to obtain injunctive or other equitable relief in addition to all legal remedies.

API

CHAPTER 1
OKULO - MHOM & RING

OKULO

This chapter contain all instruction for Okulo, MHOM & RING

INTRODUCTION

The API are reachable via REST API which return a JSON as a response.
All calls must be authenticated using your access TOKEN, which you can find in your Okulo Account.

CHANGELOG

From the same date, all POST requests to generate/delete QR Codes, MHOM codes and RING passwords must be authorized by subscribing to the relevant services.

The services can be subscribed to and activated from the okulokeyless.com account.

New attributes (in yellow) for code generation have been added. From now on it is possible (optionally) to share the generated codes via LINK on Keyless Server also with shared texts.

New function: List of ALL USER present into your Account

Inside the JSON file responding to the API call, you will now also find any warnings for:

"WARNING": "ATTENTION: you are close to using up your monthly Request APIs (you have less than warning_threshold value)"

"error": "Max request reached"

FUNCTION: LIST OF ALL CENTRAL UNIT PRESENT INTO YOUR ACCOUNT

Method: **POST**
Url: https://www.okulokeyless.com/api/device
Response: **JSON**
Example:
**https://www.okulokeyless.com/api/device?api_
token=A3pUlIt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE**

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory

EXAMPLE OF RESPONSE (FOR 1 CENTRAL UNIT)

```
[
 {
  "id":1,
  "name":"Central Unit Name",
  "group":"Group Name",
  "groupID": "1",
  "password":"99148db64e93f96939a8004f0fbf5fdd70ec27e1",
  "relay":[
   {
    "id"1,
    "name":"Relay 1"
   },
   {
    "id":2,
    "name":"Relay 2"
   },
   {
    "id":3,
    "name":"Relay 3"
   },
   {
    "id":4,
    "name":"Relay 4"
   },
   {
    "id":5,
    "name":"Relay 5"
   }
  ]
 }
]
```

NOTICE

Pay attention: The password is encrypted for security reasons.
It is sent only to carry out the checks for sending the code.

FUNCTION: LIST OF ALL USER PRESENT INTO YOUR ACCOUNT

Method: **POST**
Url: https://www.okulokeyless.com/api/user-list
Response: **JSON**
Example:
**https://www.okulokeyless.com/api/user-list?api_
token=A3pUlIt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE**

EXAMPLE OF RESPONSE

```
“4”: {
    “id”: 176964,
    “name”: “luciano”,
    “surname”: “belleno”,
    “telefono”: “”,
    “email”: “luciano@email.com”,
    “groupdevice”: “TEST”,
    “created_at”: “2024-03-05 15:33:38”,
    “device_name”: “TEST MHOM”,
    “fromdate”: “2024-03-01”,
    “fromhour”: “10:00:00”,
    “todate”: “2024-06-20”,
    “tohour”: “10:00:00”,
    “typeshot”: 0,
    “nshot”: 0,
    “type_qr”: 1,
    “type_mhom”: 1,
    “type_ring”: 1,
    “code_token”: “GKGJDAQGEF”,
    “qrcode”: “Ah4HYncCDRDw1p+e2SJ+52ARTFvDgAdBdFQ5H00sVe4rsSr95DKXwP5ywtvMAsaLK7Eq/
eQylxz+csLbzALGi30ZGLvvXx3WKz1217W/H5Ass56kEkPtf6/
bDwpvyg8CmsntuHzAbV+gbermJ5JQLN4xKDceYeUUcXBr94wklY4=”,
    “password”: “12345”,
    “ring_id”: 0,
    “ring_name”: “portone”,
    “note”: null,
    “api”: 1,
    “note_al_cliente”: “hello giovanotto”
},
```

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory
name	Name of user	STRING	Optional
surname	Surname of User	STRING	Optional
fromdate	select from date	STRING format (2024-01-01)	Optional
todate	select to date	STRING format (2024-01-31)	Optional

NOTICE

You can select 6 month period MAX.
i f you leave empty **fromdate todate**, list become from last 6 month from request

FUNCTION: CREATE A NEW QR CODE, MHOM CODE USER AND OPTIONAL RING

Method: **POST**
Url: https://www.okulokeyless.com/api/create
Response: **JSON**
Example: **(this example create an valid access on Central unit 1 & 2 and excite relays 1&3 togheter)**

https://www.okulokeyless.com/api/create
?api_token=A3pUllt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE&devices[]=1&devices[]=2&
type=1&startDay=22&startMonth=10&startYear=20&startHour=01
&startMinute=00&endDay=01&endMonth=02&endYear=22&endHour=01&endMinute=20
&rele[]=1&rele[]=3&shot=0&groupID=45&=2&name=Paolo&surname=Rossi&email=email@site.com

WARNING

Normal QR Code - MHOM Code for Okulo & MHOM version
In order to generate a Normal opening Code, it is necessary to send the array
of control units (device) containing the control units that have a maximum
of 2 different passwords and that are always of the same groupID and other mandatory parameters.
(check list of variables)

WARNING

Passepartout QR Code QR Code - MHOM Code for Okulo & MHOM version
the passepartout code only evaluates the control unit password + all the parameters related to the dates.
When it is created, it must contain at least one ID of the control unit series that have the same password.

The Passepartout QR Code can contain 2 IDs with 2 different passwords ... in that case, it will work on all control units including
those 2 passwords
Logically, we made the group mandatory .... in truth the control unit does not evaluate it (only in the case of Passepartout) ... so
it must be put .... but it is not necessary

WARNING

Time slot
If your QR Code got time slot active and you want select a time slot for one entire day of week,
store example
Friday all day access: **time1_5_from = 00:00   time1_5_to = 23:59**

WARNING

Nshot
If your Code contains nshots, you must also set a keypad code (always).
Keypad Code can also be incremental. No hardware keypad is required.

EXAMPLE OF RESPONSE

{ "idCode" : "1", "qrcode": "iVBORw0KGgoAAAANSUhEUgAAAKsAAACrAQMAAAAjJv5aAAAABlBMVEX///8AAAB-VwtN+AAAACXBIWX-
MABA7EAAAOxAGVKw4bAAACuUlEQVRlie2WPa7rIBCFx6Kggw0gsQ06tuR-swHE2YG+Jjm0gsYG4o1A875DcvEjvVUN9UaTYnyVg/
s4M0e/6f1nmB9dVu5l4I2ciX3JsSO2NSN-c1+j2pK4DIcQRwSzinVK1QloATRvCeyxzq3tyNz3kUP7gbxw0XJBrDpDZDlqjWyGuo69d4AYa/
t1C/v28YBBhrYmcTHKZ29s9v8AXYMtx83hszl6lVzkgBMabgDCFidEvlnnCO3+R4SnwFPhK8Dk+ri8oy-gunW6pOKCZWTenAxctzTP/
Ijw1A3x2LZr3JsmWaNHIStftU4h59yTLAsFor1Gdwc/CO7ZQD3iPkjnbes9lRIf4Imw-VNWzCcycaUCK41WlxybcJouD3C8s+xevh-
djy7gXzQEPfgvl1oqRY6PpnmDoO/I4ipYBHBiCN0fYirfz/kkIEaaX2tnm-7lltdNKnuEV4avhnTqhCh4jd+acaRJhCsU1BYNZYcceFCg1gXeF-
v6MSGXI5QC17l2HKxiZ/ar7A1o77PeQB3hfCPBH/XlXDHt5UyTJHg6UtDgGGis3kEvyzD3uct+SOfc3RGjm3DHZHIEBsF3UWFXSO4PjJ6UZkyc-
qdL+ACe0jlr+Bi502vL-RJrlGHuv1EvqlUf+Ch8rJRidZO7Si2pAl647v62U4ampIxcT+8cdMsN1ANt22uSmvitCh/J6V4MMG/3Sy6CO1iO/
aLfIMSH1IvQS8g+BcROTkeMpeejcouuR0Uy6TiwDmHsf6L1dk80o8bdAyDA05tJwc5845ujRVRY57l9yH3ww-gu3JXzSC0c32xkf2W+xj1BX-
qJceYB1ddNzT54J8avegn8jIc+wzYtaqpZ0/Dz9gixQFOOn9G/vBWTTnuLRoTL-gYxMH8NYMzIGOUatBP9mf62aBHuMzIh8v3hQFv7Bk2A-
f9e/6w/YOUbTbOi/OgAAAABJRU5ErkJggg=="

The result of the QR Code field is the image in base64 format.

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory
devices	List of ID's of Central Unit	ARRAY(up to 96) (1 number each) In case of Passeparout (type = 2)min. 1 ID, max 2 ID's with different passwords	Mandatory
type	Type of QR Code	STRING (1 = Normal, 2 = Passepartout)	Mandatory
startDay	Beginning Day of validity	STRING (2 characters)	Mandatory
startMonth	Beginning Month of validity	STRING (2 characters)	Mandatory
startYear	Beginning Year of validity	STRING (2 characters)	Mandatory
startHour	Beginning Hour of validity	STRING (2 characters)	Mandatory
startMinute	Beginning Minute of validity	STRING (2 characters)	Mandatory
endDay	End Day of validity	STRING (2 characters)	Mandatory
endMonth	End Month of validity	STRING (2 characters)	Mandatory
endYear	End Year of validity	STRING (2 characters)	Mandatory
endHour	End Hour of validity	STRING (2 characters)	Mandatory
endMinute	End Minute of validity	STRING (2 characters)	Mandatory
rele	List of Relays to excite	ARRAY (1 number each x 5)	Mandatory
shot	N SHOTS	INTEGER 0 = unlimited 1 = one shot 2 = nshots	Mandatory
nshot	quantity of shots	INTEGER (min. 2 - max. 65.000)	Mandatory if shot = 2
keypad	Access MHOM Keypad Code	INTEGER (5 numbers)	Optional, (Mandatory if nshot >= 2)
groupID	Central Unit Group only for Normal QR Code type	INTEGER	Mandatory only for Normal QR Code type
time1_X_from	Beginning 1st time slot of day	STRING (X = Sunday, Saturday = 6) (time = HH:mm)	Optional
time1_X_to	End 1st time slot of day	STRING (0 = Sunday, Saturday = 6) (time = HH:mm)	Mandatory if (time1_X_from = FULL)
time2_X_from	Beginning 2st time slot of day	STRING (0= Sunday, Saturday = 6) (time = HH:mm)	Optional
time2_X_to	End 2st time slot of day	STRING (0 = Sunday, Saturday = 6) (time = HH:mm)	Mandatory if (time2_X_from = FULL)
name	User name	STRING	Mandatory
surname	User surname	STRING	Mandatory
email	User email	STRING	Mandatory
phone	User phone	STRING	Optional
push	notify log via PUSH	INTEGER (1 = Yes, 0 = No)	Optional
type_qr	share like QR Code	INTEGER 0=don't share 1 = share	Optional
type_mhom	share access like keypad code	INTEGER 0=don't share 1 = share	Optional
type_ring	share access like RING	INTEGER 0=don't share 1 = share	Optional
ring_id	ID of RING central unit (can be one only	INTEGER	Mandatory if type_ring = 1
name_ring	Name of RING central unit	STRING	Mandatory if type_ring = 1
note_al_cliente	personal note	STRING - LONGTEXT	Optional
email_form	Welcome text	STRING - LONGTEXT	Optional
email_find	How to find text	STRING - LONGTEXT	Optional
email_contact	Our contact text	STRING - LONGTEXT	Optional
welcome-yes	To share Welcome text	INTEGER 0=don't share 1 = share	Mandatory if email_form = 1
howto-yes	To share find text	INTEGER 0=don't share 1 = share	Mandatory if email_find = 1
contact-yes	To share contact text	INTEGER 0=don't share 1 = share	Mandatory if email_contact = 1

FUNCTION: BLOCK QR CODE - MHOM CODE USER

Method: **POST**
Url: https://www.okulokeyless.com/api/delete
Response: **JSON**

Example:
**https://www.okulokeyless.com/api/delete?api_
token=A3pUlIt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE
&idCode=1**

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory
idCode	QR Code ID	STRING	Mandatory

WARNING

This special function it's compatible with both Code (Normal and Passepartout).
The resulting Block QR Code MUST be read from every Central Unit on which access
is to be blocked.

WARNING

The idCode it's present on the RESPONSE of the NEW QR Code CREATION

EXAMPLE OF RESPONSE

{ "idCode" : "1", "qrcode": "iVBORw0KGgoAAAANSUhEUgAAAKsAAACrAQMAAAAjJv5aAAAABlBM-
VEX///8AEAB-VwtN+AAAACXBIWXMABA7EAAAOxAGVKw4bAAACuUlEQVRIie2WPa7rIBCFx6Kggw0g-
sQ06tuR-swHE2YG+Jjm0gsYG4o1A875DcvEjvVUN9UaTYnyVg/s4M0e/6f1nmB9dVu5l4I2ciX3JsSO2NS-
N-c1+j2pK4DIcQRwSzinVK1QloATRvCeyxzq3tyNz3kUP7gbxw0XJBrDpDZdlqjWyGuo69d4AYa/t1C/
v28YBBhrYmcTHKZ29s9v8AXYMtx83hszl6lVzkgwMabgDCFidEvlnnCO3+R4SnwFPhK8Dk+ri8oy-gunW6pOKCZ-
sTenAxctzTP/Ijw1A3x2LZr3JsmWaNHIStftU4h59yTLAsFor1Gdwc/CO7ZQD3iPkjnbes9lRIf4Imw-VNWzCcycaU-
CK41WlxybcJ4uD3C8s+xevhdjy7gXzQEPfgvl1oqRY6PpnmDoO/I4ipYBHBiCN0fYirfz/kkIEaaX2tnm-7lltdN-
KnuEV4avhnTqhCh4jd+acaRJhCsU1BYNZYcceFCg1gXeFv6MSGXI5QC17l2HKxiZ/ar7A1o77PeQB3hfCPBH/
XlXDHt5UyTJHg6UtDgGGis3kEvyzD3uct+SOfc3RGjm3DHZHIEBsF3UWFXSO4PjJ6UZkycqdL+ACe0jlr+-
Bi502vL-RJrlGHuv1EvqlUf+Ch8rJRidZO7Si2pAl647v62U4ampIxcT+8cdMsN1ANt22uSmvitCh/J6V4MM-
G/3Sy6CO1iO/aLfIMSH1IvQS8g+BcROTkeMpeejcouuR0Uy6TiwDmHsf6L1dk80o8bdAyDA05tJwc5845ujR-
VRY57l9yH3ww-gu3JXzSC0c32xkf2W+xj1BXqJceYB1ddNzT54J8avegn8jIc+wzYtaqpZ0/Dz9gixQFOOn9G/
vBWTTnuLRoTL-gYxMH8NYMzIGOUatBP9mf62aBHuMzIh8v3hQFv7Bk2Af9e/6w/YOUbTbOi/OgAAAABJRU5Er-
kJggg=="}

The result of the QR Code field is the image in base64 format.

API

CHAPTER 3
RING

LOGGER WI-FI

This chapter contain all instruction for Logger Wi-fi.

INTRODUCTION

The API are reachable via REST API which return a JSON as a response.
All calls must be authenticated using your access TOKEN, which you can find in your Okulo Account.

WARNING

Manager RING Password & Logs for Logger Wi-Fi

The Manager RING Password & Logs for Logger Wi-Fi works only if the system is equipped with the optional Logger Wi-Fi for Okulo
Once the RING Password or QR Code has been scanned or typed, the system logs the events
(all System events are logged too)

FUNCTION: LIST OF LOGGER WI-FI

Method: **POST**
Url: https://www.okulokeyless.com/api/ring-device
Response: **JSON**
Example:
**https://www.okulokeyless.com/api/ring-device?api_
token=A3pUlIt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE**

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory

EXAMPLE OF RESPONSE

```
[
  {
    "token_wifi": "aj38sbdjdd8",
    "name": "Centralina 1",
    "groupdevicename": "Gruppo1"
  },
  {
    "token_wifi": "k39fnf832",
    "name": "Centralina 2",
    "groupdevicename": "Gruppo2"
  }
]
```

FUNCTION: LIST OF RING USER

Method: **POST**
Url: https://www.okulokeyless.com/api/ring-list
Response: **JSON**
Example:
Example: **https://www.okulokeyless.com/api/ring-list
?api_token=A3pUlIt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE
&name=mario&surname=rossi&fromdate=2021-01-01&todate=2021-02-28**

WARNING

From date to date
If your call a List without **fromdate todate**, System return the last 6 month of users

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory
name	USER_NAME	STRING	Optional
surname	USER_SURNAME	STRING	Optional
createdat	CREATION_DATE	DATE (YYYY-MM-DD)	Optional
fromdate	FROM_CREATION_DATE	DATE (YYYY-MM-DD)	Optional
todate	TO_CREATION_DATE	DATE (YYYY-MM-DD)	Optional

EXAMPLE OF RESPONSE

```
[
  {
    "id": 1,
    "name": "Mario",
    "surname": "Rossi",
    "groupdevice": "Gruppo1",
    "created_at": "2021-04-09 10:22:26",
    "last_edit": null,
    "device_name": "Centralina 1",
    "fromdate": "2021-04-09",
    "fromhour": "10:16:00",
    "todate": "2069-04-16",
    "tohour": "10:16:00",
    "typeshot": 0,
    "nshot": null
  },
  {
    "id": 2,
    "name": "John",
    "surname": "Doe",
    "groupdevice": "Gruppo2",
    "created_at": "2021-04-08 16:21:49",
    "last_edit": "2021-04-09 12:35:24",
    "device_name": "Centralina 2",
    "fromdate": "2021-04-08",
    "fromhour": "16:14:00",
    "todate": "2021-08-15",
    "tohour": "16:14:00",
    "typeshot": 2,
    "nshot": 10
  }
]
```

FUNCTION: CREATE A NEW RING USER

Method: **POST**
Url: https://www.okulokeyless.com/api/ring-create
Response: **JSON**

Example: **https://www.okulokeyless.com/api/ring-create
?api_token=A3pUllt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE&token_
wifi=4itG39Om&password=thisisapassword&shot=0&startDay=1&startMonth=10&startYear=
20&startHour=01
&startMinute=00&endDay=01&endMonth=02&endYear=22&endHour=01&endMinute=20
&shot=0&name=Paolo&surname=Rossi&email=email@site.com**

WARNING

Time slot
If your QR Code got time slot active and you want select a time slot for one entire day of week,
store example
Friday all day access: **time1_5_from = 00:00   time1_5_to = 23:59**

EXAMPLE OF RESPONSE

```
{
   "idCode": 28
}
```

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory
devices	List of ID's of Central Unit	ARRAY(up to 96) (1 number each) In case of Passeparout (type = 2)min. 1 ID, max 2 ID's with different passwords	Mandatory
type	Type of QR Code	STRING (1 = Normal, 2 = Passepartout)	Mandatory
startDay	Beginning Day of validity	STRING (2 characters)	Mandatory
startMonth	Beginning Month of validity	STRING (2 characters)	Mandatory
startYear	Beginning Year of validity	STRING (2 characters)	Mandatory
startHour	Beginning Hour of validity	STRING (2 characters)	Mandatory
startMinute	Beginning Minute of validity	STRING (2 characters)	Mandatory
endDay	End Day of validity	STRING (2 characters)	Mandatory
endMonth	End Month of validity	STRING (2 characters)	Mandatory
endYear	End Year of validity	STRING (2 characters)	Mandatory
endHour	End Hour of validity	STRING (2 characters)	Mandatory
endMinute	End Minute of validity	STRING (2 characters)	Mandatory
shot	N SHOTS	INTEGER 0 = unlimited 1 = one shot 2 = nshots	Mandatory
nshot	quantity of shots	INTEGER (min. 2 - max. 65.000)	Mandatory if shot = 2
groupID	Central Unit Group only for Normal QR Code type	INTEGER	Mandatory only for Normal QR Code type
time1_X_from	Beginning 1st time slot of day	STRING (X = Sunday, Saturday = 6) (time = HH:mm)	Optional
time1_X_to	End 1st time slot of day	STRING (0 = Sunday, Saturday = 6) (time = HH:mm)	Mandatory if (time1_X_from = FULL)
time2_X_from	Beginning 2st time slot of day	STRING (0= Sunday, Saturday = 6) (time = HH:mm)	Optional
time2_X_to	End 2st time slot of day	STRING (0 = Sunday, Saturday = 6) (time = HH:mm)	Mandatory if (time2_X_from = FULL)
name	User name	STRING	Mandatory
surname	User surname	STRING	Mandatory
email	User email	STRING	Mandatory
phone	User phone	STRING	Optional
push	notify log via PUSH	INTEGER (1 = Yes, 0 = No)	Optional
type_qr	share like QR Code	INTEGER 0=don't share 1 = share	Optional
type_mhom	share access like keypad code	INTEGER 0=don't share 1 = share	Optional
type_ring	share access like RING	INTEGER 0=don't share 1 = share	Optional
ring_id	ID of RING central unit (can be one only	INTEGER	Mandatory if type_ring = 1
name_ring	Name of RING central unit	STRING	Mandatory if type_ring = 1
note_al_cliente	personal note	STRING - LONGTEXT	Optional
email_form	Welcome text	STRING - LONGTEXT	Optional
email_find	How to find text	STRING - LONGTEXT	Optional
email_contact	Our contact text	STRING - LONGTEXT	Optional
welcome-yes	To share Welcome text	INTEGER 0=don't share 1 = share	Mandatory if email_form = 1
howto-yes	To share find text	INTEGER 0=don't share 1 = share	Mandatory if email_find = 1
contact-yes	To share contact text	INTEGER 0=don't share 1 = share	Mandatory if email_contact = 1

FUNCTION: DELETE A RING USER

Method: **POST**
Url: https://www.okulokeyless.com/api/ring-delete
Response: **JSON**

Example: **https://www.okulokeyless.com/api/ring-delete
?api_token=A3pUlIt68Bc4Yr7kblmgXHnRt17AECGASgdHKodKh0C2Iy1ceO3ZKfhqn5VE
&idCode=26**

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory
idCode	User ID	STRING	Mandatory

EXAMPLE OF RESPONSE IF FOUND

```
{
    "success": 1,
    "message": "Ring code deleted"
}
```

EXAMPLE OF RESPONSE IF NOT FOUND

```
{
    "success": 0,
    "message": "Ring code not available"
}
```

FUNCTION: LIST OF LOG

Method: **POST**
Url: https://www.okulokeyless.com/api/log
Response: **JSON**
Example:
Example: **https://www.okulokeyless.com/api/log?api_token=0TmKvVKZ5yiR23NmYhCx2vQQX5ldG7z3xzDH5oQVV1zpTtaY2QPO7Mql2C6D&wifi_token=Xs8Q62mP&start=2022-01-01&end=2022-01-28**

WARNING

30 days max
You can call a List of LOG within max 30 slot days

VARIABLES

Variable	Value	Type	Request
api_token	YOUR_API_TOKEN	STRING	Mandatory
wifi_token	YOUR_WIFI_TOKEN	STRING	Mandatory
start	FROM_DATE	DATE (YYYY-MM-DD)	Mandatory
end	TO_DATE	DATE (YYYY-MM-DD)	Mandatory

EXAMPLE OF RESPONSE

```
[
  {
  "success": 1,
  "logs": [
      {
        "devicename": "Garage",
        "deviceid": 1,
        "devicegroup": "Casa",
        "logname": "RING OK !",
        "logtype": 202,
        "date": "2022-01-28",
        "hour": "17:57:00",
        "description_1": "Serena",
        "description_2": "Serena",
        "rele": ""
    },  {
  "success": 1,
  "logs": [
      {
        "devicename": "Garage",
        "deviceid": 1,
        "devicegroup": "Casa",
        "logname": "RING OK !",
        "logtype": 202,
        "date": "2022-01-28",
        "hour": "17:57:00",
        "description_1": "Serena",
        "description_2": "Serena",
        "rele": ""
    },
]
```