

# v1.20\_Bob

- 
- - [GetAPList](#)
  - [GetAPDetail](#)
  - [GetAPAvailable](#)
  - [GetAPPPerformance](#)
- - [nginx ACL](#)
  - 
  - [/etc/eltex-bob/application.properties](#)
  - [/etc/default/eltex-bob](#)
  - [/etc/eltex-bob/log4j2.xml](#)
- - [\(environment\)](#)
    - 
    - [\(MySQL\)](#)
    -

Eltex-Bob - RESTful API , JSON . , 9190, GET-.

, eltex-bob MySQL. DDoS, , . , - , .env -. eltex-bob 10 .

, eltex-bob eltex-ems. eltex-ems , . « (ICMP/SNMP)» « - - system». . eltex-ems 1 .

API:

- [http://<<ip\\_address>>:<<port>>/GetAPList](#) JSON
- [http://<<ip\\_address>>:<<port>>/GetAPDetail/{MAC\\_ADDRESS}](#) -
- [http://<<ip\\_address>>:<<port>>/GetAPAvailable/{MAC\\_ADDRESS}](#) -
- [http://<<ip\\_address>>:<<port>>/GetAPPPerformance/{MAC\\_ADDRESS}](#) -

## GetAPList

JSON, :

- **grRegion** - /;
- **vspNumber** - ;
- **apID** - MAC-;
- **apRtcGroup** - ,
- **grTB** - ;
- **apGroup** - ;
- **vspAddress** - ;
- **apName** - ;
- **grCity** - ;

:

```
{
  "data": [
    {
      "grRegion": "",
      "vspNumber": "*****",
      "apID": "00-00-00-00-00-00",
      "apRtcGroup": "toor.pA",
      "grTB": "",
      "apGroup": "//. *****",
      "vspAddress": "***** , , *",
      "apName": "*****_Samarskaya_*_00:00:00:00:00:00",
      "grCity": ""
    },
  ],
}
```

• :

```
curl -L http://localhost:9190/GetAPList
```

## GetAPDetail

, :

- "firmware-version" - ;
- "full-address" - .
- "vsp" - ;
- "city" - ;
- "serial-number" - ;
- "ip" - IP-;
- grTB - ;
- "office" - , ;

:

```
curl -L http://localhost:9190/GetAPDetail/00-00-00-00-00-00
```

:

```
{
  "firmware-version": "1.0.0.0",
  "full-address": " , , *",
  "vsp": "*****",
  "city": "",
  "serial-number": "",
  "ip": "127.0.0.1",
  "grTB": "",
  "office": ". *****"
}
```

## GetAPAvailable

, :

- "available" - , 0 - , 1 - ;
- "uptime" - , .

:

```
curl -L http://localhost:9190/GetAPAvailable/00-00-00-00-00-00
```

:

```
{
  "available": 0,
  "uptime": 67370
}
```

## GetAPPerformance

, :

- "wifi\_users" - ,
- "mac" - mac-

:

```
curl -L http://localhost:9190/GetAPPerformance/00-00-00-00-00-00
```

:

```
{
  "wifi_users": "5"
  "mac": "00-00-00-00-00-00"
}
```

2:

- http-basic, ;
- ACL- nginx, nginx.

## nginx ACL

IP-, nginx ACL. Access Control List nginx, :

```
location /api {
    allow 192.168.1.3/24;
    allow 127.0.0.1;
    deny all;
}
```

**deny** - IP-address, ;

**allow** - IP-address, .

, IP- 192.168.1.3 127.0.0.1 , .

E nginx eltex-bob, :

```

server {
    listen 80;
    server_name bob;
    location /api/ {
        proxy_pass http://localhost:9190/;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_redirect default;
    }
}

```

1. EMS " " " -> " " , "+":

Добавление нового объекта

Описание профиля

Параметры

Имя профиля

testprofile

Описание

test

Принять

Закреть

" " " " ,

" " :

Добавление нового объекта

Описание профиля

Параметры

Страница: 1 / 0 на странице: 20 Фильтр:

Изменить поля

Имя	Регулярное выражение	Тип связи	Описание
<div> <div>Добавление нового объекта</div> <div> <div>Имя</div> <div>testprofile</div> <div>Регулярное выражение</div> <div></div> <div>Тип связи</div> <div>ForDomain</div> <div>Описание</div> <div>test</div> </div> <div> <div>Принять</div> <div>Отменить</div> </div> </div>			

Принять

Закреть

2. EMS " " "->" , :

Редактировать

Наименование

Описание

Макс. пользователей Wi-Fi

Тип домена

Регион

Часовой пояс

Внешний идентификатор

Название компании

Номер лицевого счёта

★ root

both

+

×

Профили

✓ Принять

✗ Отменить

Выбрать

1. test (test)

2. testprofile (test)

✓ Принять

✗ Отменить

/etc/eltex-bob/application.properties

application.properties

```
# The Datasource Mysql properties
spring.application.name=bob
h2.console.enabled=true
h2.console.port=9111

spring.datasource.url=r2dbc:mysql://localhost:3306/eltex_ems?
useSSL=false&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
spring.datasource.username=javauser
spring.datasource.password=javapassword
spring.datasource.hikari.maximum-pool-size=20

service.profile.id=2
service.profile.fields=testprofile

spring.mvc.favicon.enabled=false

mac.splitter=-

auth.enabled=false
auth.username=user
auth.password=password

server.port=9190
server.cron=0 */10 * ? * *
```

```
h2.console.enabled=true
h2.console.port=9111
```

- :

```
spring.datasource.url=r2dbc:mysql://localhost:3306/eltex_ems?
useSSL=false&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
spring.datasource.username=javauser
spring.datasource.password=javapassword
```

- . , 10 , .

```
spring.datasource.hikari.maximum-pool-size=10
```

- .

```
service.profile.id=2
service.profile.fields=testprofile
```

- -( apID GetAPDetail, GetAPAvailable, GetAPPerformance, "-")

```
mac.splitter=-
```

- -, false - :

```
auth.enabled=true
```

- /, bob:

```
auth.username=user
auth.password=password
```

- :

```
excel.config.file=/etc/eltex-bob/excel_config.yaml
```

- ,

```
server.port=9190
```

- , :

```
server.cron=0 */10 * ? * *
```

spring. UNIX , 6, .

/etc/default/eltex-bob

.

eltex-bob

```
# AP Monitoring service

# Initial size of Java heap
JAVA_INIT_HEAP=128m
# Maximum size of Java heap
JAVA_MAX_HEAP=256m

# Additional arguments to pass to java
JAVA_OPTS="-XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=/var/log/eltex-bob"
```

JAVA_INIT_HEAP	, . JAVA_MAX_HEAP.
JAVA_MAX_HEAP	,
JAVA_OPTS	jvm

/etc/eltex-bob/log4j2.xml

log4j2.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<Configuration>
  <Properties>
    <Property name="maxSize" value="5MB"/>
    <Property name="maxCount" value="7"/>
    <Property name="logDir" value="/var/log/eltex-bob"/>
    <Property name="defaultPattern" value="%d{ISO8601} [%t] %-5p %logger{1} %C{1}:%M(line:%L). %m%n"/>
    <Property name="gelfHost" value="udp:lab3-test.eltex.loc"/>
    <Property name="gelfPort" value="12201"/>
    <Property name="gelfLevel" value="OFF"/>
    <Property name="filenamePrefix" value="eltex-bob"/>
  </Properties>

  <Appenders>
    <Console name="STDOUT" target="SYSTEM_OUT">
      <PatternLayout>
        <Pattern>${defaultPattern}</Pattern>
      </PatternLayout>
    </Console>

    <RollingFile name="SPRING-INFO"
      fileName="${logDir}/${filenamePrefix}-spring.log"
      filePattern="${logDir}/%d{yyyyMMdd}.%i.log">
      <ThresholdFilter level="INFO" onMatch="ACCEPT" onMismatch="DENY"/>
      <PatternLayout>
        <pattern>${defaultPattern}</pattern>
      </PatternLayout>
      <Policies>
        <SizeBasedTriggeringPolicy size="${maxSize}"/>
      </Policies>
      <DefaultRolloverStrategy max="${maxCount}"/>
    </RollingFile>

    <RollingFile name="SERVICE-ERROR"
      fileName="${logDir}/${filenamePrefix}-error.log"
      filePattern="${logDir}/%d{yyyyMMdd}.%i.log">
```

```

<ThresholdFilter level="ERROR" onMatch="ACCEPT" onMismatch="DENY"/>
<PatternLayout>
  <pattern>${defaultPattern}</pattern>
</PatternLayout>
<Policies>
  <SizeBasedTriggeringPolicy size="${maxSize}"/>
</Policies>
<DefaultRolloverStrategy max="${maxCount}"/>
</RollingFile>

<RollingFile name="SERVICE-INFO"
  fileName="${logDir}/${filenamePrefix}-info.log"
  filePattern="${logDir}/%d{yyyyMMdd}.%i.log">
  <ThresholdFilter level="INFO" onMatch="ACCEPT" onMismatch="DENY"/>
  <PatternLayout>
    <pattern>${defaultPattern}</pattern>
  </PatternLayout>
  <Policies>
    <SizeBasedTriggeringPolicy size="${maxSize}"/>
  </Policies>
  <DefaultRolloverStrategy max="${maxCount}"/>
</RollingFile>

<Gelf name="Gelf"
  host="${gelfHost}"
  port="${gelfPort}"
  version="1.1"
  facility="${filenamePrefix}"
  extractStackTrace="true"
  originHost="%host{fqdn}"
  maximumMessageSize="8192" >
  <Field name="thread" pattern="%t" />
  <Field name="level" pattern="%level" />
  <Field name="severity" pattern="%-5level" />
  <Field name="logger" pattern="%logger{1}" />
  <Field name="location" pattern="%C{1}.%M(line:%L)" />
</Gelf>
</Appenders>

<Loggers>
  <Logger name="org.springframework" level="info" additivity="false">
    <AppenderRef ref="SPRING-INFO"/>
  </Logger>

  <Logger name="org.eltex.softwlc.bob" level="error" additivity="false">
    <AppenderRef ref="SERVICE-ERROR"/>
  </Logger>

  <Logger name="org.eltex.softwlc.bob" level="info" additivity="false">
    <AppenderRef ref="SERVICE-INFO"/>
  </Logger>

  <Root level="error">
    <AppenderRef ref="Gelf" level="${gelfLevel}"/>
  </Root>
</Loggers>
</Configuration>

```

- ( . ):

```
<Property name="maxSize" value="5MB"/>
```

- , :

```
<Property name="maxCount" value="7"/>
```



- :

```
<Property name="logDir" value="/var/log/eltex-bob"/>
```

- Graylog (,,):

```
<Property name="gelfLevel">${env:GELF_LEVEL:-OFF}</Property>
<Property name="gelfHost">${env:GELF_HOST:-udp:lab3-test.eltex.loc}</Property>
<Property name="gelfPort">${env:GELF_PORT:-12201}</Property>
```

- 

```
<Root level="error">
```

docker-. .env docker-compose.yml.

#### docker-compose.yml

```
version: "3"

services:
  bob:
    image: hub.eltex-co.ru/softwlc/eltex-bob:1.19-<tag>
    network_mode: host
    ports:
      - 9190:${BOB_PORT}
      - 9111:9111
    volumes:
      - "/etc/eltex-bob/log4j2.xml:/etc/eltex-bob/log4j2.xml"
      - "/var/log/eltex-bob:/var/log/eltex-bob"
    environment:
      - server.port=${BOB_PORT}
      - server.cron=${BOB_CRON}
      - spring.datasource.url=${BOB_DB_URL}
      - spring.datasource.username=${BOB_DB_USERNAME}
      - spring.datasource.password=${BOB_DB_PASSWORD}
      - service.profile.id=${BOB_CLIENT_PROFILE}
      - service.profile.fields=${BOB_CLIENT_PROFILE_FIELDS}
      - fields=${BOB_CLIENT_PROFILE_FIELDS}
```



<tag> , .

#### .env

```
# common bob params
BOB_DB_URL=r2dbc:mysql://100.110.1.228:3306/eltex_ems?
useSSL=false&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
BOB_DB_USERNAME=javauser
BOB_DB_PASSWORD=javapassword
BOB_CLIENT_PROFILE=2
BOB_CLIENT_PROFILE_FIELDS=testprofile
BOB_PORT=9190
BOB_CRON=0 */10 * ? * *
```

.env docker-compose.yml . :

```
docker-compose up
```

(environment)

- **BOB\_PORT** - , ;
- **BOB\_CRON** - , . spring.  
UNIX , 6 , .

(MySQL)

- **BOB\_DB\_URL** - URL MySQL;
- **BOB\_DB\_USERNAME** - ;
- **BOB\_DB\_PASSWORD** - ;

- **BOB\_CLIENT\_PROFILE** - id ;
- **BOB\_CLIENT\_PROFILE\_FIELDS** - .