

# v1.18\_APB





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- - /:
- - /etc/default/eltex-apb
  - /etc/eltex-apb/apb.properties
  - /etc/eltex-apb/ehcache.xml
  - /etc/eltex-apb/hosts.json
  - /etc/eltex-apb/log4j2.xml
- APB




Eltex-APB .:

- , WEB-
- 

```
apt-get install eltex-apb
```

/:

	service eltex-apb status	<div>eltex-apb is running with pid &lt;pid&gt;</div>
		<div>eltex-apb is not running</div>
	service eltex-apb start	<div>Starting eltex-apb ... eltex-apb started</div>
		<div>eltex-apb is already running</div>

	<code>service eltex-apb stop</code>	<div><div> Stopping eltex-apb ... eltex-apb stopped</div><div> ... eltex-apb is not running rm: cannot remove '/var/run/eltex-apb.pid': No such file or directory</div></div>
	<code>service eltex-apb restart</code>	<div><div> Stopping eltex-apb ... eltex-apb stopped Starting eltex-apb ... eltex-apb started</div></div>

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`http://localhost:8090/apb/ap.jsp`

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`http://localhost:8090/apb/users.jsp`

## /etc/default/eltex-apb

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### /etc/default/eltex-apb

```
# Port for use by Access Point Binder service
PORT=8090
# Number of connection requests that can be queued
ACCEPT_QUEUE_SIZE=0
# Max text message buffer size, in bytes
MAX_TEXT_MESSAGE_BUFFER_SIZE=524288

# Path to Java executable
JAVA=/usr/bin/java

# Memory
JAVA_INIT_HEAP=128m
JAVA_MAX_HEAP=2048m

# To enable remote JMX monitoring uncomment the following line
#JMX_OPTS="-Dcom.sun.management.jmxremote -Dcom.sun.management.jmxremote.port=8091 -Dcom.sun.management.jmxremote.ssl=false -Dcom.sun.management.jmxremote.authenticate=false -Dcom.sun.management.jmxremote.local.only=false -Djava.rmi.server.hostname=127.0.0.1"
```

• :

```
PORT=8090
```

- , , , ( ):

```
ACCEPT_QUEUE_SIZE=0
```

- , :

```
MAX_TEXT_MESSAGE_BUFFER_SIZE=262144
```

- , ( , , [/etc/eltex-apb/ehcache.xml](#)):

```
JAVA_INIT_HEAP=128m
JAVA_MAX_HEAP=2048m
```

## [/etc/eltex-apb/apb.properties](#)

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### [/etc/eltex-apb/apb.properties](#)

```
mercury.host=localhost
mercury.port=6565
mercury.pool.size=100

# Config filePath to cache
cache.config=/etc/eltex-apb/ehcache.xml

# list of permitted files to
hosts.file=/etc/eltex-apb/hosts.json

# Timeout waiting for subscribe-request after connecting the access point to the server, in seconds
subscribe.idle.timeout=60

# Timeout during that the session will stay opened without receiving any message
message.idle.timeout=90

# Interval of ping to be sent to the websocket session
ping.idle.timeout=30

# Maximum count of outgoing messages to queue for each session
session.outgoingQueue=100
nbi.client.login=admin
nbi.client.password=password
```

- [Mercury](#):

```
mercury.host=localhost
mercury.port=6565
mercury.pool.size=100
```

- :

```
# Config filePath to cache
cache.config=/etc/eltex-apb/ehcache.xml

# list of permitted files to
hosts.file=/etc/eltex-apb/hosts.json
```

- , :

```
# Timeout waiting for subscribe-request after connecting the access point to the server, in seconds
subscribe.idle.timeout=60
```

- , :

```
# Timeout during that the session will stay opened without receiving any message
message.idle.timeout=9
```

- :

```
# Interval of ping to be sent to the websocket session
ping.idle.timeout=30
```

- :

```
# Maximum count of outgoing messages to queue for each session
session.outgoingQueue=100
```

- NBI:

```
nbi.client.login=admin
nbi.client.password=password
```

[/etc/eltex-apb/ehcache.xml](#)

Wi-Fi, . [/etc/eltex-apb/apb.properties](#).

## /etc/eltex-apb/ehcache.xml

```
<ehcache xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:noNamespaceSchemaLocation="http://www.ehcache.org/ehcache.xsd" updateCheck="false" monitoring="
autodetect"
        dynamicConfig="true">

    <!--cacheManagerPeerProviderFactory
        class="net.sf.ehcache.distribution.RMICacheManagerPeerProviderFactory"
        properties="peerDiscovery=manual,rmiUrls=//192.168.26.179:40001/users"/-->

    <!--cacheManagerPeerListenerFactory
        class="net.sf.ehcache.distribution.RMICacheManagerPeerListenerFactory"
        properties="hostName=192.168.26.205, port=40001, socketTimeoutMillis=2000"/-->

    <defaultCache
        maxEntriesLocalHeap="10000"
        eternal="false"
        timeToLiveSeconds="8600"
        timeToIdleSeconds="120"
        maxEntriesLocalDisk="10000000"
        diskExpiryThreadIntervalSeconds="120"
        memoryStoreEvictionPolicy="LRU">
        <pinning store="inCache" />
        <persistence strategy="localTempSwap"/>
    </defaultCache>

    <cache name="users"
        maxBytesLocalHeap="1G"
        eternal="false"
        timeToLiveSeconds="43200"
        memoryStoreEvictionPolicy="LRU">
        <pinning store="inCache" />
        <persistence strategy="none"/>

        <searchable keys="true" values="false" allowDynamicIndexing="false">
            <searchAttribute name="mobilityDomainBean" class="org.eltex.softwlc.apb.cache.
MobilityDomainAttributeExtractor"/>
            <searchAttribute name="account" class="org.eltex.softwlc.apb.cache.AccountAttributeExtractor"/>
        </searchable>

        <!--cacheEventListenerFactory
            class="net.sf.ehcache.distribution.RMICacheReplicatorFactory"
            properties="replicateAsynchronously=true, replicatePuts=true, replicateUpdates=true,
replicateRemovals=true " /-->
        </cache>

        <cache name="hosts" maxBytesLocalHeap="128M" eternal="true">
            <persistence strategy="none"/>
        </cache>

</ehcache>
```

- , "maxBytesLocalHeap" :

```
<cache name="users"
    maxBytesLocalHeap="200M"
    eternal="false"
    timeToLiveSeconds="43200"
    memoryStoreEvictionPolicy="LRU">
    . . .
</cache>
```

- , "maxBytesLocalHeap" :

```
<cache name="hosts" maxBytesLocalHeap="128M" eternal="true">
  <persistence strategy="none"/>
</cache>
```

## /etc/eltex-apb/hosts.json

C . (IP-, ). /etc/eltex-apb/apb.properties .

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```
[
  {
    "mobility-domain-list": [
      {
        "mobility-domain": "nsk.ru",
        "radius-domain": "root",
        "ssid": "Eltex-Local"
      }
    ],
    "permitted-ip-list": [
      "eltex.nsk.ru",
      "eltex.org"
    ]
  },
  {
    "permitted-ip-list": [
      "esia-portall.test.gosuslugi.ru",
      "esia.gosuslugi.ru",
    ]
  }
]
```

- , :

```
[{
  "permitted-ip-list": [
    "esia-portall.test.gosuslugi.ru",
    "esia.gosuslugi.ru",
  ]
}]
```

- , SSID , :

```
[{
  "mobility-domain-list": [
    {
      "mobility-domain": "nsk.ru",
      "radius-domain": "root",
      "ssid": "Eltex-Local"
    }
  ],
  "permitted-ip-list": [
    "eltex.nsk.ru",
    "eltex.org"
  ]
}]
```

, , mobility-domain nsk.ru, radius-domain root, ssid – Eltex-Local, , eltex.nsk.ru eltex.org. , , «permitted-ip-list», , , «mobility-domain-list».

, IP- .



"mobility-domain" "ap-location" , .

## /etc/eltex-apb/log4j2.xml

### /etc/eltex-apb/log4j2.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<Configuration status="OFF" monitorInterval="10">
  <Properties>
    <Property name="rootLevel">${env:LOG_LEVEL:-INFO}</Property>

    <Property name="baseDir">/var/log/eltex-apb</Property>
    <Property name="maxFileSize">20 MB</Property>
    <Property name="accumulatedFileSize">100 MB</Property>
    <Property name="lastModified">4d</Property>
    <Property name="maxCount">7</Property>
    <Property name="logPattern">%d{ISO8601} [%t] %-5p %logger{1} %C{1}.%M(line:%L). %m%n</Property>
    <Property name="dateSuffix">%d{yyyyMMdd}</Property>

    <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>
  </Properties>

  <Appenders>
    <Console name="STDERR" target="System.err">
      <PatternLayout pattern="${logPattern}" />
    </Console>

    <RollingFile name="RollingFile"
      filename="${baseDir}/apb.log"
      filepattern="${baseDir}/log/apb-${dateSuffix}-%i.log.gz">
      <PatternLayout pattern="${logPattern}" />
      <Policies>
        <TimeBasedTriggeringPolicy interval="1" modulate="true" />
        <SizeBasedTriggeringPolicy size="${maxFileSize}" />
        <OnStartupTriggeringPolicy />
      </Policies>
      <DefaultRolloverStrategy max="${maxCount}">
        <Delete basePath="${baseDir}" maxDepth="1">
          <IfFileName glob="*/apb-*.log.gz">
            <IfAny>
              <IfAccumulatedFileSize exceeds="${accumulatedFileSize}" />
              <IfLastModified age="${lastModified}" />
            </IfAny>
          </IfFileName>
        </Delete>
      </DefaultRolloverStrategy>
    </RollingFile>

    <RollingFile name="CacheAppender"
      filename="${baseDir}/apb-cache.log"
      filepattern="${baseDir}/log/apb-cache-${dateSuffix}-%i.log.gz">
      <PatternLayout pattern="${logPattern}" />
      <Policies>
        <TimeBasedTriggeringPolicy interval="1" modulate="true" />
        <SizeBasedTriggeringPolicy size="${maxFileSize}" />
        <OnStartupTriggeringPolicy />
      </Policies>
      <DefaultRolloverStrategy max="${maxCount}">
```

```

        <Delete basePath="${baseDir}" maxDepth="1">
            <IfFileName glob="*/apb-cache-*.log">
                <IfAny>
                    <IfAccumulatedFileSize exceeds="${accumulatedFileSize}"/>
                    <IfLastModified age="${lastModified}"/>
                </IfAny>
            </IfFileName>
        </Delete>
    </DefaultRolloverStrategy>
</RollingFile>

<Gelf name="Gelf" host="${gelfHost}" port="${gelfPort}" version="1.1" facility="eltex-apb"
    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>
    <Root level="${rootLevel}">
        <AppenderRef ref="RollingFile"/>
        <AppenderRef ref="STDERR" level="OFF"/>
        <AppenderRef ref="Gelf" level="${gelfLevel}"/>
    </Root>

    <Logger name="org.springframework" level="ERROR"/>
    <Logger name="org.apache" level="ERROR"/>
    <Logger name="org.quartz" level="ERROR"/>
    <Logger name="io.netty" level="ERROR"/>
    <Logger name="io.grpc" level="ERROR"/>

    <Logger name="net.sf.ehcache" additivity="false">
        <AppenderRef ref="CacheAppender" level="DEBUG"/>
        <AppenderRef ref="RollingFile" level="ERROR"/>
    </Logger>

</Loggers>
</Configuration>

```

- :

```
<Configuration status="OFF" monitorInterval="10">
```

- :

```
<Property name="rootLevel">${env:LOG_LEVEL:-INFO}</Property>
```

- :

```
<Property name="baseDir">/var/log/eltex-apb</Property>
```

- ( . ):

```
<Property name="maxFileSize">20 MB</Property>
```

- ( + ). :

```
<Property name="accumulatedFileSize">100 MB</Property>
```

- , :



```
<Property name="lastModified">4d</Property>
```

- , :

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

- 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>
```

## APB

APB GUI EMS.

**Captive Portal.Global**, **Roaming Service URL** : "<IP-a\_apb>:8090". IP-a APB .

Description	Пользователи Wi-Fi	Мониторинг конкурентных ТД	Мониторинг	Конфигурация	RRD statistics	Access
Network						
Wireless settings						
Access						
Radio interfaces						
Virtual access points						
Key holder data						
Global RADIUS						
QoS. Main						
QoS. EDCA parameters						
Client QoS. Global						
Client QoS. Class Map						
Client QoS. Policy Map						
WDS						
Captive Portal. Global						
Captive Portal. Instance						
Cluster. Main						
AirTune service						
System time						
System events						
SNMP						
SNMP trap						
CLI/telnet						
CLI/ssh						

Обновить

Редактировать

В XML

Captive Portal Mode	On
Authentication Timeout, sec	300
Additional HTTP Port	0
Additional HTTPS Port	0
White IP delay	3
Debug Level	0
Roaming service address	172.16.0.134:8090
Roaming no action timeout, min	720
AP IP alias	redirect.loc
Disconnect before redirect	Off

«Roaming no action timeout» ( , / ). «Roaming no action timeout» .

« » SSID Captive Portal «User Mobility Domain» ( , , ).

RADIUS порт	1812
----- Minimal signal -----	
Enabled	<input type="checkbox"/>
----- Captive portal -----	
Enabled	<input checked="" type="checkbox"/>
Virtual portal name	working
Протокол	HTTP
Verification	CaptivePortal
Redirect	<input type="checkbox"/>
External	<input checked="" type="checkbox"/>
External URL	http://softwlc.eltex.loc:8080/eltex_portal/
Away Time, min	0
Session Timeout, min	0
User mobility domain (FW 1.9.0)	ap.hotspot.service.root

☒ Принять ☒ Отменить