v1.18_APB

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  - /:
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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`	`eltex-apb is running with pid <pid>`
		
		`eltex-apb is not running`

	`service eltex-apb start`	`Starting eltex-apb ...`
		`eltex-apb started`
		
		`eltex-apb is already running`

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

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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

.

/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,
                                                        replicateUpdatesViaCopy=false,
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**. .

:

```
[
  {
    "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-portal1.test.gosuslugi.ru",
        "esia.gosuslugi.ru",
    ]
  }
]
```

- , :

```
  [{
    "permitted-ip-list": [
        "esia-portal1.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

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/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>
```

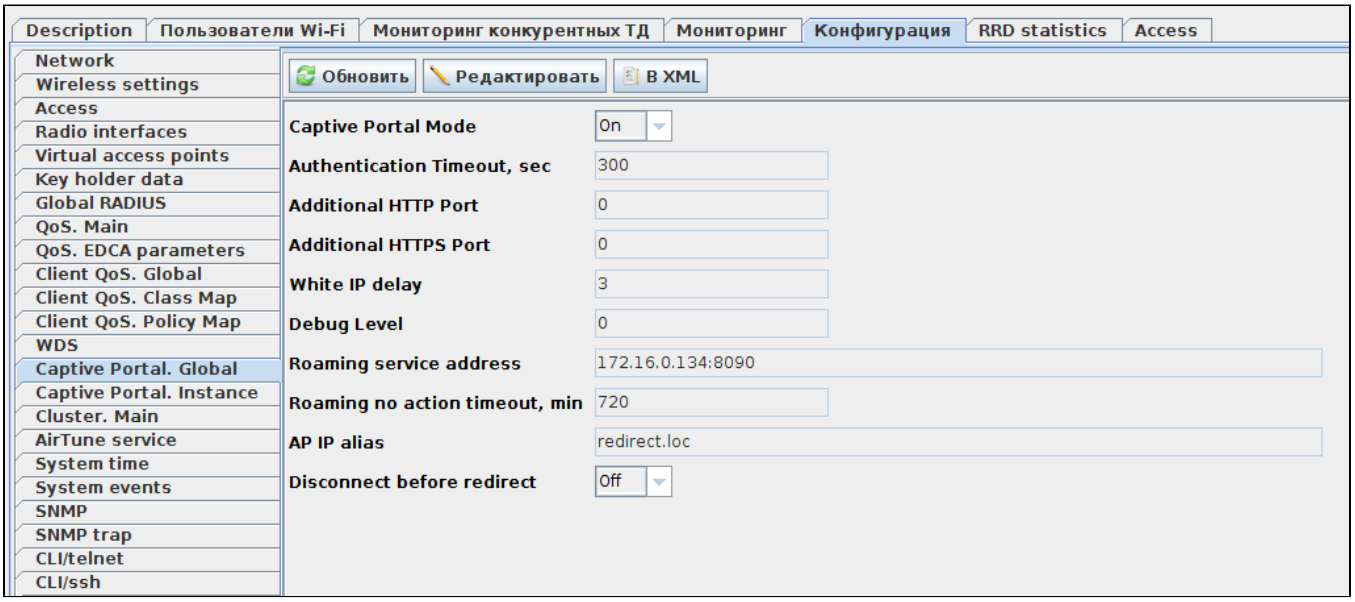
- Graylog (, ,):

```
<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

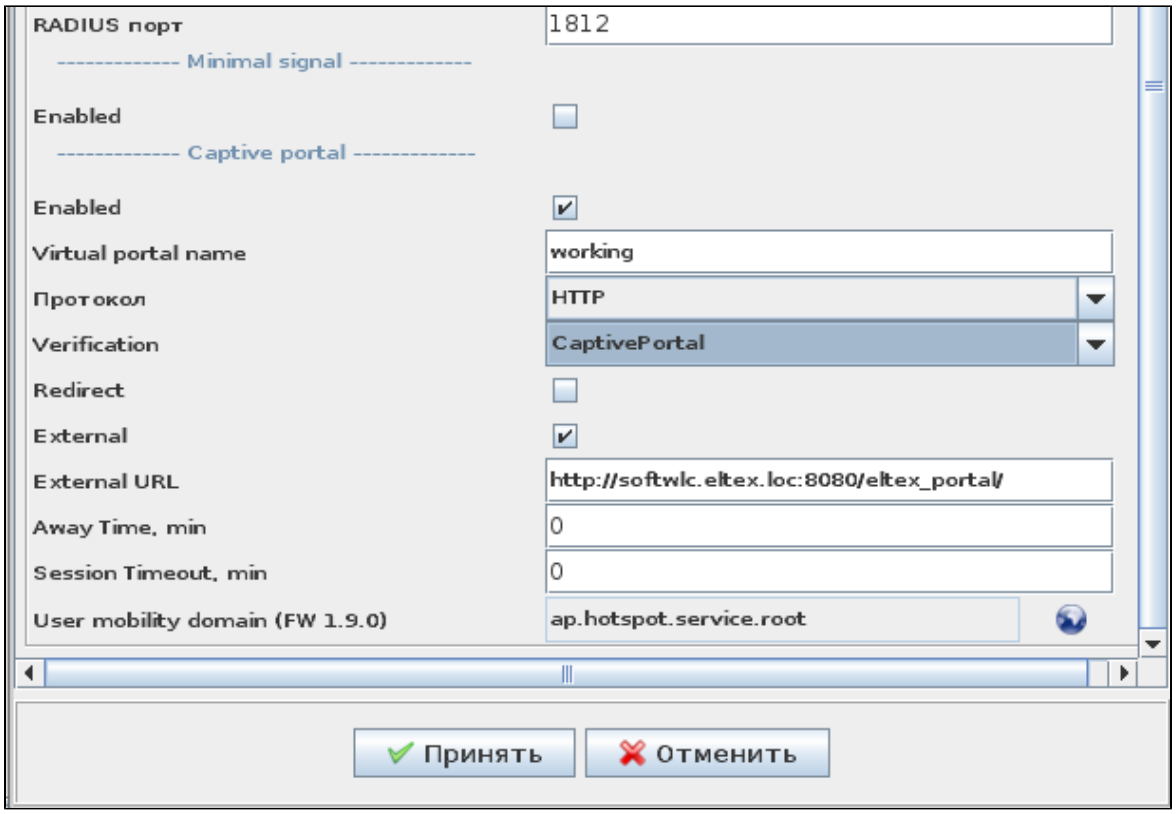
APB GUI EMS.

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



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

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


RADIUS порт
1812
---------- Minimal signal ----------
Enabled
---------- Captive portal ----------
Enabled
Virtual portal name
working
Протокол
HTTP
Verification
CaptivePortal
Redirect
External
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