

v1.16_PCRF


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```
<div class="aui-message error aui-message-error">
<p class="title">
<span class="aui-icon icon-error"></span>
<strong>Comala Metadata License Details</strong>
</p>
<p>Invalid commercial evaluation license with a expired error. Please click <a href="https://marketplace.atlassian.com/plugins/org.andya.confluence.plugins.metadata" target="_blank">here</a> to purchase a commercial license.</p>
</div>
```

:

- , Wi-Fi , BRAS (,).
- .
- Wi-Fi .
- Wi-Fi , WPA-enterprise BRAS.
- (90%) (90%) .

 'http://<ip address pcrf>:7070/pcrf'.

	service eltex-pcrf status	<div> * eltex-pcrf process is running</div> <div> * eltex-pcrf process is not running</div>
	service eltex-pcrf start	<div> * Starting eltex-pcrf</div> <div> * eltex-pcrf is already running</div>

	<code>service eltex-pcrf stop</code>	<div><div> * Stopping eltex-pcr</div><div> , .. * eltex-pcrf is not running</div></div>
	<code>service eltex-pcrf restart</code>	<div><div> * Stopping eltex-pcrf * Starting eltex-pcrf * eltex-pcrf is not running * Starting eltex-pcrf</div></div>

/etc/default/eltex-pcrf

. :

```

# Eltex.PCRF Server daemon parameters

# Location of java binary
JAVA=/usr/bin/java

# Initial size of Java heap
JAVA_INIT_HEAP=256m
# Maximum size of Java heap
JAVA_MAX_HEAP=512m

# To monitor via JMX - jconsole to host:port
#JMX_OPTS="-Dcom.sun.management.jmxremote \
#-Dcom.sun.management.jmxremote.port=8085 \
#-Dcom.sun.management.jmxremote.authenticate=false \
#-Dcom.sun.management.jmxremote.ssl=false \
#-Djava.rmi.server.hostname=127.0.0.1"

# Options for Java Garbage Collector
GC_OPTS="-XX:+UseParallelGC \
-XX:+PrintGCDateStamps \
-XX:+PrintGCDetails \
-XX:+UseGCLogFileRotation \
-XX:NumberOfGCLogFiles=7 \
-XX:GCLogFileSize=5M \
-Xloggc:/var/log/eltex-pcrf/gc.log"
# Without log
#GC_OPTS="-XX:+UseParallelGC"

# Additional arguments to pass to java
HEAP_DUMP_OPTS="-XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=/var/log/eltex-pcrf"

# Summary JAVA_OPTS used by daemon
JAVA_OPTS="$JMX_OPTS $GC_OPTS $HEAP_DUMP_OPTS"

# Send notification
#NOTIFICATION_ADDR="admin@mail.loc"

```

<pre># Location of java binary JAVA=/usr/bin/java</pre>	Java
<pre>JAVA_INIT_HEAP=256m JAVA_MAX_HEAP=512m</pre>	,

/etc/eltex-pcrf/eltex-pcrf.json

```

{
  "auth.address" : "0.0.0.0",
  "auth.port" : 31812,
  "auth.mac.open.timeout.s" : 3600,
  "auth.mac.welcome.service" : "WELCOME",

  "acct.address" : "0.0.0.0",
  "acct.ports" : [1813, 31813],

  "lease.saver.address" : "0.0.0.0",

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"lease.saver.port" : 4381,

"aaa.instances" : 5,
"aaa.host" : "127.0.0.1",
"aaa.secret" : "testing123",
"aaa.auth.port" : 1812,
"aaa.acct.port" : 1813,
"aaa.rest.port" : 7080,
"aaa.timeout" : 10,
"aaa.attempts" : 1,

"web.monitoring.port" : 7070,

"cluster.enable" : false,
"cluster.eventBusPort" : 5801,

"radius" : {
  "url" : "jdbc:mysql://localhost/radius?
useUnicode=true&characterEncoding=utf8&relaxAutoCommit=true&connectTimeout=5000&autoReconnect=true",
  "user" : "javauser",
  "password" : "javapassword",
  "max_pool_size" : 16
},

"mongo.pcrf" : {
  "connection_string": "mongodb://localhost:27017/pcrf?
waitQueueMultiple=500&connectTimeoutMS=10000&socketTimeoutMS=0",
  "db_name": "pcrf"
},

"mongo.ott" : {
  "connection_string": "mongodb://localhost:27017/ott?
waitQueueMultiple=500&connectTimeoutMS=10000&socketTimeoutMS=0",
  "db_name": "ott"
},

"session.storage" : {
  "session.check.period.s" : 300,
  "unauth.store.time.s" : 600,
  "interval.number.expired" : 3,
  "min.interval.s" : 45,
  "default.interval.s" : 600
},

"bras.coa" : {
  "coa.timeout" : 10,
  "coa.attempts" : 1,
  "remote.coa.port" : 3799,
  "executor.size" : 100,
  "log.clean.period.s" : 600,
  "log.store.period" : {
    "period" : 14,
    "unit" : "D"
  }
},

"sql.ems" : {
  "url" : "jdbc:mysql://localhost/eltex_ems?
useUnicode=true&characterEncoding=utf8&relaxAutoCommit=true&connectTimeout=5000&autoReconnect=true",
  "user" : "javauser",
  "password" : "javapassword",
  "max_pool_size" : 16
},

"sql.wireless" : {
  "url" : "jdbc:mysql://localhost/wireless?
useUnicode=true&characterEncoding=utf8&relaxAutoCommit=true&connectTimeout=5000&autoReconnect=true",
  "user" : "javauser",
  "password" : "javapassword",
  "max_pool_size" : 16
},

```

```

"ngw" : {
  "host" : "localhost",
  "port" : 8040
},

"language" : "en",

"radius.nbi" : {
  "wds1.url" : "http://localhost:8080/axis2/services/RadiusNbiService?wsdl",
  "username" : "admin",
  "password" : "password",
  "connection.timeout.ms" : 30000,
  "request.timeout.ms" : 120000
},

"tariffs.update.interval" : {
  "interval" : 1,
  "unit" : "hours"
}
}

```

auth.address	,
auth.port	,
auth.mac.open.timeout.s	"",,
auth.mac.welcome.service	,
acct.address	,
acct.port	,
Wi-Fi BRAS	
aaa.instances	
aaa.host	Eltex.RADIUS
aaa.secret	RADIUS key
aaa.auth.port	
aaa.acct.port	
aaa.rest.port	Eltex.RADIUS
aaa.timeout	
aaa.attempts	

web.monitoring.port	
cluster.enable	
cluster.eventBusPort	
MySQL ('radius', 'eltex_ems', 'wireless')	
url	Mysql
user	
password	
max_pool_size	,
Mongo, PCRF OTT	
connection_string	URI Mongo
db_name	, (, URI)
Mongo	
session.check.period.s	. , .
unauth.store.time.s	, BRAS, .
interval.number.expired	, "" .
min.interval.s	, .
default.interval.s	, .
CoA	
coa.timeout	
coa.attempts	
remote.coa.port	,
executor.size	
log.store.period	
log.store.period	
NGW	
host	Notification GW
port	,
language	, , "en". "ru", .

NBI	
wdsl.url	NBI
username	
password	
connection.timeout.ms	
request.timeout.ms	
(1.9)	
interval	
unit	("hours")

/etc/eltex-pcrf/hazelcast-cluster-network.xml

 Hazelcast, PCRF.

group network (PCRF):

```

<hazelcast>

  <!-- You can separate your clusters in a simple way by specifying group names. -->
  <group>
    <name>dev</name>
  </group>

  <network>
    <!-- Write here public address of the node -->
    <public-address>192.168.0.1</public-address>
    <port auto-increment="false" port-count="100">5701</port>
    <outbound-ports>
      <ports>0</ports>
    </outbound-ports>
    <join>
      <multicast enabled="false"/>
      <tcp-ip enabled="true">
        <!-- Write here IP of all members of the cluster (including this) -->
        <member>192.168.0.1</member>
        <member>192.168.0.2</member>
      </tcp-ip>
      <discovery-strategies>
      </discovery-strategies>
    </join>
    <interfaces enabled="true">
      <!-- Write here IP of the interface to use for cluster -->
      <interface>192.168.0.1</interface>
    </interfaces>
    <ssl enabled="false"/>
    <socket-interceptor enabled="false"/>
    <symmetric-encryption enabled="false">
      <algorithm>PBESWithMD5AndDES</algorithm>
      <!-- salt value to use when generating the secret key -->
      <salt>thesalt</salt>
      <!-- pass phrase to use when generating the secret key -->
      <password>thepass</password>
      <!-- iteration count to use when generating the secret key -->
      <iteration-count>19</iteration-count>
    </symmetric-encryption>
  </network>
</hazelcast>

```

<name>dev</name>	, . , .
<public-address>192.168.0.1</public-address>	
<member>192.168.0.1</member> <member>192.168.0.2</member>	, (,)
<interface>192.168.0.1</interface>	(public-address)