

# Advanced ORPS RADSECProxy Configuration

This should be representative of the configuration used in production. It contains the appropriate logging and filtering.

For RadSecProxy 1.8.0 and above:

```
# Some basic logging
LogLevel 3
LogDestination          x-syslog:///LOG_DAEMON

# Prevents RADIUS servers from causing a loop by sending requests back
again.
LoopPrevention          On
# FTICKS is a standardised way of logging authentication attempts.
FTicksSyslogFacility LOG_LOCAL0
FTicksReporting Full
FTicksMAC VendorKeyHashed
FTicksKey arandomsalt

rewrite OutboundFilter {
    # Operator-Name
    RemoveAttribute 126
    AddAttribute 126:'!home.site

    WhitelistMode on
    # User-Name
    WhitelistAttribute 1
    # EAP-Message
    WhitelistAttribute 79
    # Message-Authenticator
    WhitelistAttribute 80
    # State
    WhitelistAttribute 24
    # Proxy-State
    WhitelistAttribute 33
    # Operator-Name
    WhitelistAttribute 126
    # Class
    WhitelistAttribute 25
    # Calling-Station-Id
    WhitelistAttribute 31
    # Called-Station-Id
    WhitelistAttribute 30
    # Chargeable-User-Identity
    WhitelistAttribute 89
}
```

```
# Upstream RADIUS proxy
server roaming0.govroam.uk {
    host 212.219.190.139
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
    RewriteOut OutboundFilter
#This checks that status of the adjacent servers.
    statusServer minimal
}

# Upstream RADIUS proxy
server roaming1.govroam.uk {
    host 212.219.209.43
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
    RewriteOut OutboundFilter
#This checks that status of the adjacent servers.
    statusServer minimal
}

# Upstream RADIUS proxy
server roaming2.govroam.uk {
    host 212.219.247.59
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
    RewriteOut OutboundFilter
#This checks that status of the adjacent servers.
    statusServer minimal
}

# Upstream RADIUS proxy
server roaming3.govroam.uk {
    host 195.194.21.203
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
    RewriteOut OutboundFilter
#This checks that status of the adjacent servers.
    statusServer minimal
}

# Local IdP which will do the authentication (Omit for Visited Only)
# Configure to match the RADIUS server to which auth requests for your local
realm will be sent.
server localidp1 {
    host 10.10.10.21
```

```
        type udp
        secret XXXX
        statusServer auto
    }

# RADIUS requests will also be received from the national proxies. (Omit for
Visited Only)
client roaming0.govroam.uk {
    host 212.219.190.139
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}
client roaming1.govroam.uk {
    host 212.219.209.43
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}
client roaming2.govroam.uk {
    host 212.219.247.59
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}
client roaming3.govroam.uk {
    host 195.194.21.203
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}

# Wireless system
# Configure this to match the wireless controller/controllers from which the
authentication requests are coming.
client nas {
    host 10.10.10.10
    type udp
    secret XXXX
    fticksVISCOUNTRY GB
# Change 'home.site' to your realm
    fticksVISINST lhome.site
}

#Known local realm (Omit for Visited Only)
#Configure 'localnet' to be the name of the realm for your site and
'localidp1' to be the IDP mentioned above
```

```
realm localnet {
    server localidp1
}

### Catch a load of common misconfigurations
realm /^$/ {
    replymessage "Misconfigured client: empty realm!"
}

realm
/@@((myabc|gmail|googlemail|hotmail|live|outlook|yahoo|unimail).com|(.*\.)?3g
ppnetworks?.org|yahoo.cn)/ {
    replymessage "Misconfigured client: govroam realm not permitted"
}

realm /@@(.*\.(ax\.uk|ax\.edu|sc\.uk|ac\.edu|ac\.u|local)|ac\.uk)$/ {
    replymessage "Misconfigured client: govroam realm invalid (typo?)"
}

realm /@\. / {
    replymessage "Misconfigured client: govroam realm invalid (leading '.')"
}

realm /@[^\.]+$/ {
    replymessage "Misconfigured client: govroam realm invalid (incomplete)"
}

### Check it's a syntactically correct realm and proxy if ok
realm /@[0-9a-zA-Z\.]+\.[0-9a-zA-Z\.]+"$/ {
    server roaming0.govroam.uk
    server roaming1.govroam.uk
    server roaming2.govroam.uk
    server roaming3.govroam.uk
}

### Otherwise reject it
realm * {
    replymessage "Misconfigured client: govroam realm invalid (syntax
error)"
}
```

For older versions of RadSecProxy (e.g. on Debian)

```
# Some basic logging
LogLevel 3
LogDestination          x-syslog:///LOG_DAEMON

# Prevents RADIUS servers from causing a loop by sending requests back
again.
LoopPrevention          On
```

```
# FTICKS is a standardised way of logging authentication attempts.
FTicksSyslogFacility LOG_LOCAL0
FTicksReporting Full
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rewrite OutboundFilter {
    # Operator-Name
    RemoveAttribute 126
    AddAttribute 126:'!home.site'
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server roaming0.govroam.uk {
    host 212.219.190.139
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    secret XXXX
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#This checks that status of the adjacent servers.
    statusServer on
}

# Upstream RADIUS proxy
server roaming1.govroam.uk {
    host 212.219.209.43
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
    RewriteOut OutboundFilter
#This checks that status of the adjacent servers.
    statusServer on
}

# Upstream RADIUS proxy
server roaming2.govroam.uk {
    host 212.219.247.59
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
    RewriteOut OutboundFilter
#This checks that status of the adjacent servers.
    statusServer on
}

# Upstream RADIUS proxy
server roaming3.govroam.uk {
    host 195.194.21.203
    type udp
## Change XXXX to the supplied RADIUS secret.
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```
secret XXXX
RewriteOut OutboundFilter
#This checks that status of the adjacent servers.
statusServer on
}

# Local IdP which will do the authentication (Omit for Visited Only)
# Configure to match the RADIUS server to which auth requests for your local
realm will be sent.
server localidp1 {
    host 10.10.10.21
    type udp
    secret XXXX
    statusServer off
}

# RADIUS requests will also be received from the national proxies. (Omit for
Visited Only)
client roaming0.govroam.uk {
    host 212.219.190.139
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}
client roaming1.govroam.uk {
    host 212.219.209.43
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}
client roaming2.govroam.uk {
    host 212.219.247.59
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}
client roaming3.govroam.uk {
    host 195.194.21.203
    type udp
## Change XXXX to the supplied RADIUS secret.
    secret XXXX
}

# Wireless system
# Configure this to match the wireless controller/controllers from which the
```

```
authentication requests are coming.
client nas {
    host 10.10.10.10
    type udp
    secret XXXX
    fticksVISICOUNTRY GB
# Change 'home.site' to your realm
    fticksVISINST lhome.site
}

#Known local realm (Omit for Visited Only)
#Configure 'localnet' to be the name of the realm for your site and
'localidp1' to be the IDP mentioned above

realm localnet {
    server localidp1
}

### Catch a load of common misconfigurations
realm /^$/ {
    replymessage "Misconfigured client: empty realm!"
}

realm
/@@(myabc|gmail|googlemail|hotmail|live|outlook|yahoo|unimail).com|(.*\.)?3g
ppnetworks?.org|yahoo.cn)/ {
    replymessage "Misconfigured client: govroam realm not permitted"
}

realm /@@(.*\.(ax\.uk|ax\.edu|sc\.uk|ac\.edu|ac\.u|local)|ac\.uk)$/ {
    replymessage "Misconfigured client: govroam realm invalid (typo?)"
}

realm /@\.\/ {
    replymessage "Misconfigured client: govroam realm invalid (leading '.')"
}

realm /@[^\.]+$/ {
    replymessage "Misconfigured client: govroam realm invalid (incomplete)"
}

### Check it's a syntactically correct realm and proxy if ok
realm /@[0-9a-zA-Z\.\.]+\. [0-9a-zA-Z\.\.]+$/ {
    server roaming0.govroam.uk
    server roaming1.govroam.uk
    server roaming2.govroam.uk
    server roaming3.govroam.uk
}

### Otherwise reject it
realm * {
```

```
replymessage "Misconfigured client: govroam realm invalid (syntax error)"  
}
```

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