

## Changed files

- clients.conf
- proxy.conf
- sites-available → govroam
- mods-available → govroam\_logs

Delete any other links in the sites-enabled directory ('status' can be left/added if you're allowing status checks). Attempting to run 'govroam' and 'default' will likely result in problems stating the RADIUS server.

### clients.conf:

```
# Configure the JISC NRPS as a client as it will be sending request from
your people abroad.

client NAS {
    secret = something
    ipaddr = 10.10.20.1
}

client roaming0 {
    secret = something
    ipaddr = 192.168.0.1
}

# Configure your local IdP as a client. (Omit for Visited Only ORPS)
client localidp1 {
    secret = something
    ipaddr = 10.10.10.31
}
```

### proxy.conf:

```
# Blackhole (REJECT) where the realm is missing.

realm NULL {
}

# Realms that don't match any other listed send to the pool of govroam
servers
realm "~.+$" {
    auth_pool = govroam
    nostrip
}

# Pool of govroam servers
home_server_pool govroam {
```

```
        home_server = roaming0
        type = client-port-balance
    }

#Govroam server configuration
home_server roaming0 {
    ipaddr = roaming0.govroam.uk
    port = 1812
    type = auth
    secret = something
    status_check = status-server # Checks status of govroam server
}

# Handle requests for the realm 'localnet'. (Omit for Visited Only ORPS)
realm localnet {
    nostrip
    auth_pool = ad_auth
}

server_pool ad_auth {
    type = client-port-balance
    home_server = localidp1
}

home_server localidp1 {
    status_check = status-server
    ipaddr = 10.10.10.31
    secret = something
    port = 1812
    type = auth
}
```

### sites-available->govroam:

```
server govroam {
    # Listen on the default port on all IP addresses
    listen {
        type = auth
        ipaddr = *
    }

    authorize {
        preprocess
        update request {
            Operator-Name := 1your.domain # Adds the Operator
Name attribute to the request.
        }
        auth_log
    }
}
```

```
        suffix # Identifies the realm
        files

    }

    authenticate {
    }

    preacct {
        preprocess
        suffix
    }

    accounting {
        detail
    }

    post-auth {
        # Lots of logging
        reply_log
        f_ticks
        govroam_log
        Post-Auth-Type REJECT {
            attr_filter.access_reject
            reply_log
            f_ticks
        }
    }

    pre-proxy {
        pre_proxy_log
        if("%{Packet-Type}" != "Accounting-Request") {
            attr_filter.pre-proxy
        }
    }

    post-proxy {
        post_proxy_log
        attr_filter.post-proxy
    }
}
```

And then create a symlink from sites-enabled/govroam to sites-available/govroam.

### **mods-available->govroam\_logs:**

```
# F-TICKS
linelog f_ticks {
    filename = syslog
    format = ""
}
```

```
reference = "f_ticks.%%{reply:Packet-Type}: -format}"
f_ticks {
    Access-Accept = "F-
TICKS/govroam/1.0#REALM=%{Realm}#VISICOUNTRY=GB#VISINST=%{Operator-
Name}#CSI=%{Calling-Station-Id}#RESULT=OK#"
    Access-Reject = "F-
TICKS/govroam/1.0#REALM=%{Realm}#VISICOUNTRY=GB#VISINST=%{Operator-
Name}#CSI=%{Calling-Station-Id}#RESULT=FAIL#" # Remove when sending to Jisc
NRPS
}
}

linelog govroam_log {
    filename = syslog
    format = ""
    reference = "govroam_log.%%{reply:Packet-Type}: -format}"
    govroam_log {
        Access-Accept = "govroam-auth#ORG=%{request:Realm}#USER=%{User-
Name}#CSI=%{Calling-Station-Id}:-Unknown Caller Id}#NAS=%{Called-
Station-Id}:-Unknown Access Point}#CUI=%{reply:Chargeable-User-Identity}:-
Unknown}#MSG=%{EAP-Message}:-No EAP Message}#RESULT=OK#"
        Access-Reject = "govroam-auth#ORG=%{request:Realm}#USER=%{User-
Name}#CSI=%{Calling-Station-Id}:-Unknown Caller Id}#NAS=%{Called-
Station-Id}:-Unknown Access Point}#CUI=%{reply:Chargeable-User-Identity}:-
Unknown}#MSG=%{reply:Reply-Message}:-No Failure Reason}#RESULT=FAIL#"
    }
}
}
```

And then create a symlink from mods-enabled/govroam\_logs to mods-available/govroam\_logs.

Use the **details.log** file in mods-available to configure how the local logs are formatted and stored.

```
detail auth_log {
    detailfile = ${radacctdir}/%Y%m%d/request-detail-%H:00
    header = "%{Packet-Src-IP-Address} - %t"
    detailperm = 0600
    suppress {
        User-Password
    }
}

detail reply_log {
    detailfile = ${radacctdir}/%Y%m%d/reply-detail-%H:00
    header = "%{Packet-Src-IP-Address} - %t"
    detailperm = 0600
}
```

```
detail pre_proxy_log {
    detailfile = ${radacctdir}/%Y%m%d/pre-proxy-detail-%H:00
    header = "%{Packet-Src-IP-Address} - %t"
    log_packet_header = yes
    detailperm = 0600
    suppress {
        User-Password
    }
}

detail post_proxy_log {
    detailfile = ${radacctdir}/%Y%m%d/post-proxy-detail-%H:00
    header = "%{Packet-Src-IP-Address} - %t"
    detailperm = 0600
}
```

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