IN PROGRESS

Prerequesites

The winbind package must be installed and working.

Changed files

- clients.conf
- proxy.conf
- sites-available/govroam
- sites-available/govroam-inner-tunnel
- mods-available/eap
- 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 a Network Access Server (e.g. wireless controller) to accept
traffic from.

client  NAS {
        secret = something
        ipaddr = 10.10.20.1
}

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

client roaming0 {
        secret = something
        ipaddr = 192.168.0.1
        operator = "NRPS"

}

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

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 "~^[^@.]([a-zA-Z0-9-]+\.)+[a-zA-Z]{2,6}$" {
    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
    operator = "NRPS"

}

# 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
```

```
        operator = "localidp1"

}
```

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, if it doesn't already exist.
                }
                auth_log
                suffix # Identifies the realm
                files
                cui
                mschap # used for plain/non-eap ntlm_auth testing
                eap {
                        ok = return
                }

        }

        authenticate {
                ntlm_auth
                Auth-Type MS-CHAP {
                        mschap
                }
                eap
        }

        preacct {
                preprocess
                suffix
        }

        accounting {
                detail
        }

        post-auth {
                # Lots of logging
                reply_log
```

```
                # Only send F-TICKS to Jisc when proxying between sites.
        if ( "%{home_server:operator}" != "NRPS" && "%{client:operator}" !=
"NRPS") {
          f_ticks
        }
                govroam_log
                cui
                Post-Auth-Type REJECT {
                        attr_filter.access_reject
                        reply_log
                }
        }

        pre-proxy {
                pre_proxy_log
                cui
                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.

sites-available/govroam-inner-tunnel

```
server inner-tunnel {

        authorize {
                 preprocess
                 auth_log
                 suffix
                 update control {
                          Proxy-To-Realm := LOCAL
                 }
                 eap {
                          ok = return
                 }
                 files
             pap
                 mschap
        }
        authenticate {
```

```
                ntlm_auth # Just for testing plain/non-EAP auth
                files
                Auth-Type PAP {
                        pap
                }
                Auth-Type MS-CHAP {
                        mschap
                }
                eap
        }

        post-auth {
                cui
                reply_log
                govroam_log
                Post-Auth-Type REJECT {
                        reply_log
                        govroam_log
                }
        }
}
```

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

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}#VISCOUNTRY=GB#VISINST=%{Operator-
Name}#CSI=%{Calling-Station-Id}#RESULT=OK#FEDID=XX#" # Replace XX with your
supplied ID

        }


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. The format below stores the logs by date and time making it easier to use logrotate or similiar to archive off older logs.

```
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
}
```

Once configured you can test using eapol_test

From:
https://wiki.govroam.uk/ - **Govroam**

Permanent link:
https://wiki.govroam.uk/doku.php?id=siteadmin:basic_freeradius_orps_and_idp_configuration&rev=1669992449

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