

# Retro-fitting FTICKS to FreeRADIUS

For a [brief explanation of FTICKS](#) and why they're useful.

What we're trying to achieve is for an RFO to send us logs of just the successful authentications happening between your registered organisations (i.e. not the ones proxies to and from the Jisc NRPS).

To do this there are a few stages.

1. Modify the [client stanzas](#) to include an 'operator=<realm>' line which will set the internal 'operator' variable to identify the organisation from which the request originates. e.g:

```
client somesite {
    secret = something
    ipaddr = 192.168.0.1
    operator = "somesite.nhs.uk"
}
```

2. Modify the [client stanzas](#) to identify all the Jisc NRPS as 'operator=NRPS', as above. e.g:

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

#Govroam server configuration
home_server roaming0 {
    ipaddr = roaming0.govroam.uk
    port = 1812
    type = auth
    secret = something
    operator = "NRPS"
}
```

3. Ensure that the [Operator-Name variable](#) is being set to the right value, or a suitable default e.g:

```
update request {
    Operator-Name = "%{%{client:operator}:-lnhs.uk}"
}
```

Replace 'nhs.uk' with your realm.

4. Add a [log section](#) for FTICKS which sends the logs to syslog. e.g:

```
# 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#FEDID=XX#" # Replace XX with your
supplied ID, or remove FEDID=XX if you're not a Regional Federation
Operator.

    }
```

5. Modify the [post-auth stanza](#) to use the above log section only where the source and destination aren't 'NRPS'. e.g:

```
        # Only send F-TICKS to Jisc when proxying between sites.
        if ( "%{home_server:operator}" != "NRPS" && "%{client:operator}" !=
"NRPS" && "%{request:Called-Station-Id}" =~ /:govroam$/) {
            f_ticks
        }
```

6. Configure a [syslog server](#) to proxy to the FTICKS syslog to the Jisc syslog server. Example for syslog-ng:

```
destination d_jisc {
    syslog("utilities.govroam.uk" transport("tcp") port("514"));
};

filter f_fticks {
    facility(local0) and match ("F-TICKS", value ("MESSAGE"));
};

log {
    source(s_src);
    filter(f_fticks);
    destination(d_jisc);
};
```

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