# FreeRADIUS Operator-Name Setting

**Work in progress**

## Basic O-N setting

This configuration simply updates the Operator-Name value in the request packets.

```
server govroam {
...
        authorize {
...
                update request {
                        Operator-Name := 1your.domain
                }
...
```

## RFO O-N Setting

As an RFO you're in a position to rewrite the Operator-Name in the outer RADIUS tunnel. This can be useful if your connected sites aren't setting it themselves, or are setting it wrongly. Ideally each site should it appropriately because some sites might have multiple O-Ns in use and are in the best position to set them accurately. However, some RADIUS servers (NPS in particular) can't set O-N.

Best case is that all sites everywhere set the correct O-N and it's proxied untouched to Jisc. This requires that all connect sites run appropriate software which is configured correctly.

Second best case is that the RFO sets the missing O-N for sites as the packets are proxied through them.

Next best case is that the RFO sets a single O-N for all packets proxied. (see above section on Basic O-N setting.

Worst case is that the O-N isn't set and proxied packets contain no identification.

So, here we'll deal with the Second best case - setting missing O-N.

First challenge is how to identify which site is which when proxying. Incoming connections can only be identified by their IP address. Fortunately FreeRADIUS provides a way to add attributes internally to incoming connections.

```
client holby-nhs-uk-0 {
        ipaddr = server1.holby.nhs.uk
        secret = charlieisaseriealkiller
        operator = "1holby.nhs.uk" # Add this internal variable
        require_message_authenticator = yes
```

```
}
```

Now

```
%{client:operator}
```

is available in the main configuration as a variable containing an O-N for each client.

Now use

```
                update request {
                        Operator-Name := %{client:operator}
                }
```

To set the O-N for each incoming request. This will overwrite any previous value.

Using

```
                update request {
                        Operator-Name := %{Operator-Name:-
%{client:operator}}
                }
```

will set the O-N to either the existing O-N, exists, or the client one, if not.

If you want to go all the way:

```
                update request {
                        Operator-Name := %{Operator-Name:-
%{client:operator:-'1nhs.uk'}}
                }
```

which will set, in preference, the existing O-N, the client operator and then a default of '1nhs.uk'.

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