

# Restrict connections by SSID

- As more and more people start to deploy RADIUSdesk there are always new places and ways RADIUSdesk are being deployed.
- One such a deployment required that:
  - There be some restrictions imposed based on the SSID which the user connected to.
  - A user will be allowed to connect to one or more SSIDs.
  - This restriction will not depend or require that the packet comes from a certain vendor's equipment.
  - We have an easy way to manage the list of SSIDs.
- With the list of requirements, a quick fix was out of the question.

## How does a quick-fix look

- We assume the incoming packet comes from a Ruckus Zonedirector.
- The incoming packet will then contain a Ruckus specific AVP for SSID:

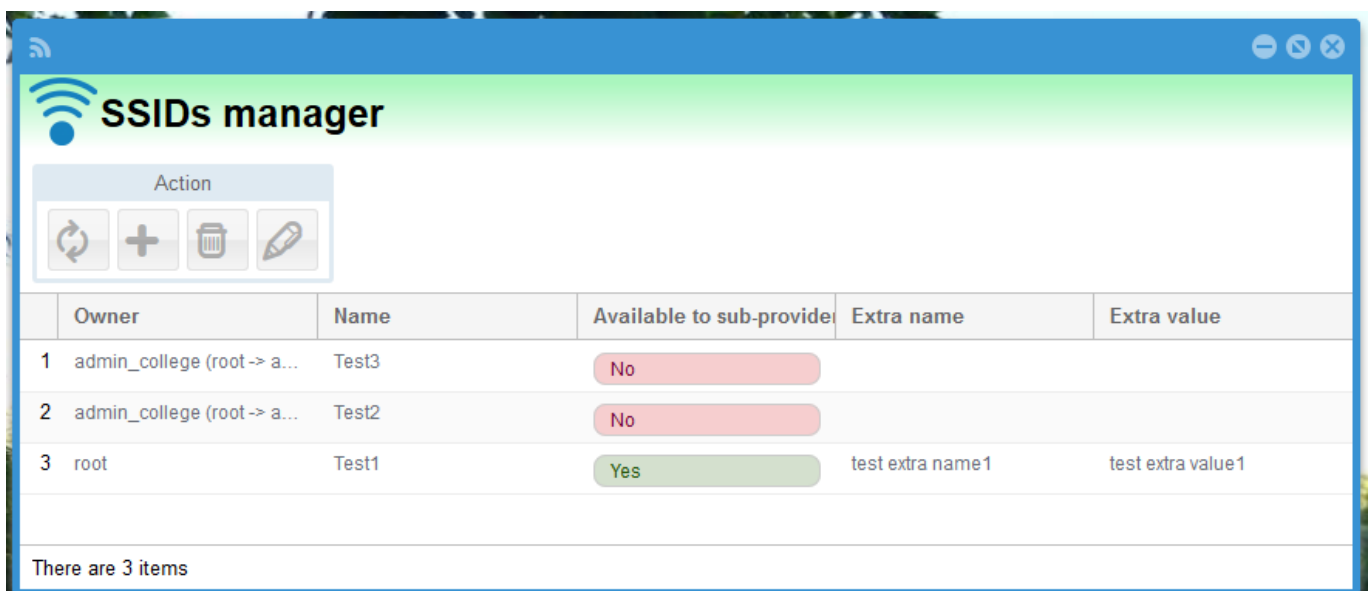
Ruckus-SSID = "Test2"

- We can then simply add a private check attribute per user: That **Ruckus-SSID**(AVP) == (Operator) **Test2**(Value).
- This unfortunately limits us to one value, one vendor and we have no easy way to get a list of all the SSIDs.

Since the quick fix did not fulfill all our desires we invented something which does: **The SSIDs applet**

## The SSID applet

- The SSID applet lives under **Menu→Realms and Providers→SSIDs**.
- This is the place where you **Create Read Update and Delete (CRUD)** the pool of SSIDs.



- Once we have our pool of SSIDs we can attach one or more to either a **Voucher** or **Permanent user**.

The screenshot shows the RADIUSdesk web interface. At the top, there's a navigation bar with 'Home' and 'dvdwalt' tabs. Below it, a tabbed interface has 'Basic info', 'Personal info', and 'Devices'. The 'Personal info' tab is active, showing fields for 'Realm' (Residence Inn), 'Profile' (Data-Standard-1G), 'Cap type for data' (Hard), 'Always active' (checked), 'Static IP' (192.168.1.1), 'Extra field name', 'Extra field value', 'Connect only from selected SSIDs' (checked), and 'SSIDs' (Test2, Test1). A 'Save' button is at the bottom right of this form.

Overlaid on top of the 'Personal info' tab is a modal window titled '+ New permanent user'. It has a close button in the top right. The modal contains a section 'Supply the following' with a checked checkbox 'Connect only from selected SSIDs' and a dropdown menu for 'SSIDs' showing 'Test2, Test1'. Below this, there's a tabbed interface with 'Personal info', 'Activate and Expire', 'SSIDs', and 'Opt'. The 'Personal info' tab is selected. At the bottom of the modal are 'Previous' and 'Next' buttons.

- This feature is a **NON disruptive** feature. This means that there are no harm done if you **do not** use it.

## How do we do it?

- This section is for the technical minded who like to know how things work.
- We added two internal AVPs:
  - Rd-Ssid-Check
  - Rd-Ssid-Value
- We also added a **user\_ssids** table to the SQL database where the username and SSIDs which the specific username are allowed to connect from is kept.
- This mapping is managed through the RADIUSdesk front-end.
- **Rd-Ssid-Check** is added to a Permanent User or Voucher's name in the **radcheck** table with a value of **1** to enforce SSID restrictions.
- We use the **Rd-Ssid-Value** internal AVP to store the value of the SSID which we filter out of the incoming RADIUS Auth packet's **Called-Station-Id**.



```
Reply-Message := "No SSID available to evaluate SSID
restriction"
}
reject
}
}
}
```

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