

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:

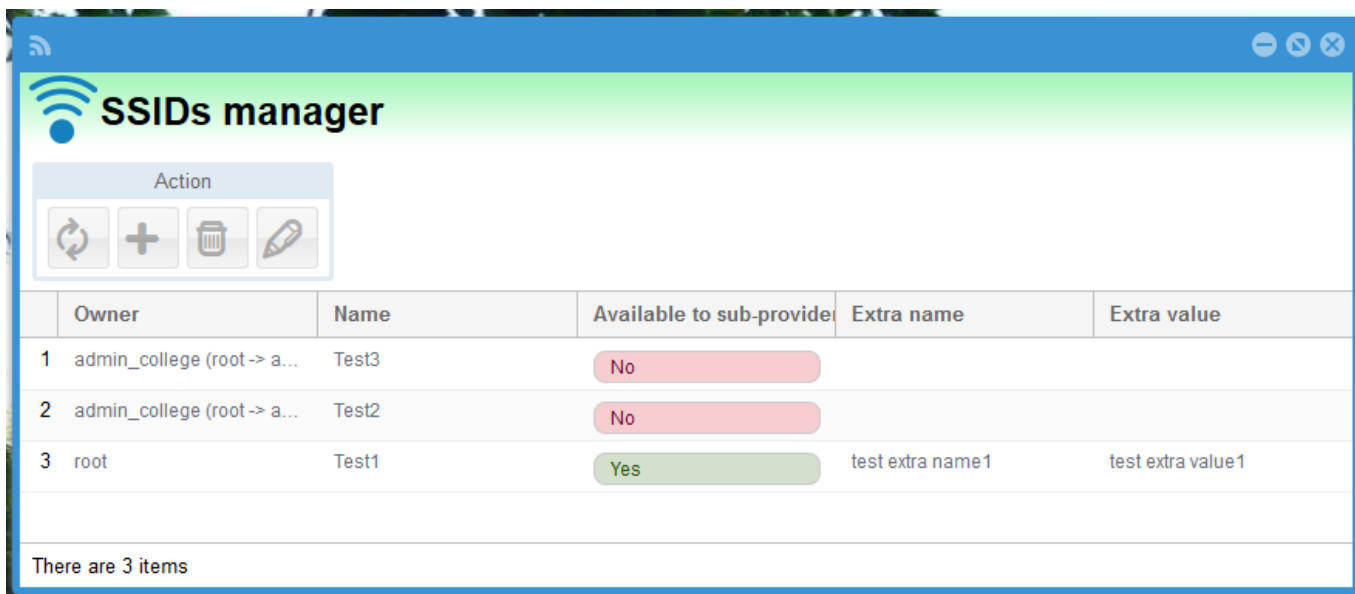
Ruckus-SSID = "Test2"

- 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.

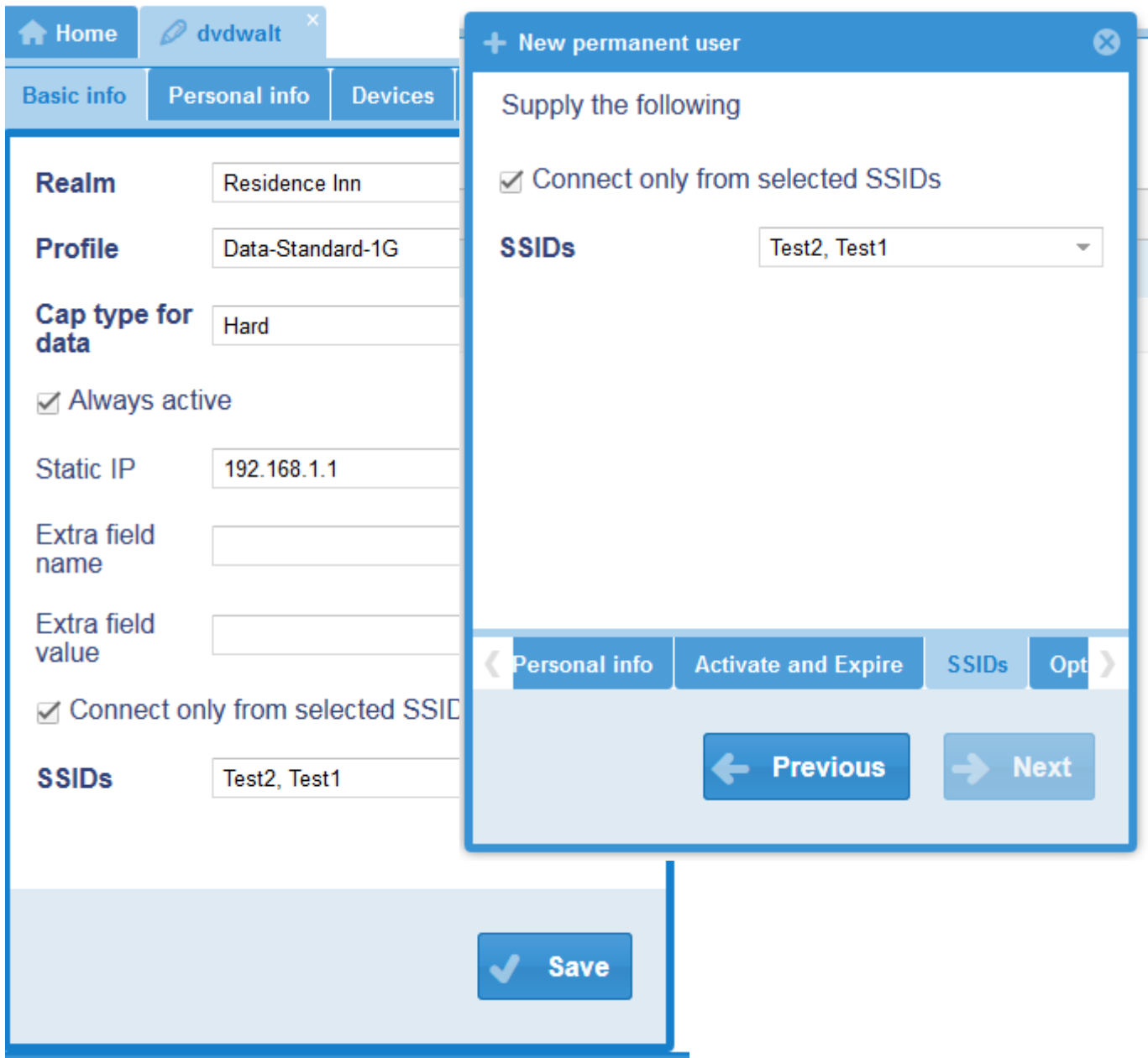
Since the quick fix did not fulfill all our desires we invented something which does: **The SSIDs applet**

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**.



- 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
}
}
}
```

From:

<https://www.radiusdesk.com/docuwiki/> - **RADIUSdesk**

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