Performing a Remote WiFi Survey

I will present the list of commands that I found helpful in deciding if the service level could be deemed good (good – is based on the contract agreement with the client and/or known values).We had a base line at the install with signal readings in the furthest points that needed to be covered.

The order that we will present the commands is not necessary the other that they need to be executed:

- show ap arm rf-summary ap-name <ap name> (page 681 from ArubaOS_6.2CRG.pdf)
    o This will allow you to see the noise level on each channel – This is to help us understand if a spectrum scan would be more helpful.
- show ap bss-table ap-name <ap name> (page 696 from ArubaOS_6.2CRG.pdf)
    o This will allow you to see if the AP has SSID's configured and broadcasting.
    o For even more details for vlan type of traffic (split or tunneled) we could run the command
        ▪ show ap debug bss-config ap-name <ap name> (page 728 from ArubaOS_6.2CRG.pdf)
- show user ap-name <ap> (page 1319 from ArubaOS_6.2CRG.pdf)
    o This will show the list of clients connected to the AP.
- show ap debug client-table ap-name <ap name> (page 740 from ArubaOS_6.2CRG.pdf)
    o This will show the list of clients in power save or active.
    o Another way to check if that client is doing traffic or not would be the command:
        ▪ show datapath session ap-name <ap name> | include <ip-addr of client> (page 969 from ArubaOS_6.2CRG.pdf)
- show ap association client-mac <mac-client> (page 687 from ArubaOS_6.2CRG.pdf)
    o This is used to get the connection status to the client.
- show ap arm scan-times ap-name <ap name> (page 683 from ArubaOS_6.2CRG.pdf)
    o This will give the scanned channels and how many times he scanned each channel. I added this command because sometimes we noticed that arm was not scanning.
- show ap debug radio-stats ap-name <ap name> radio <index> advanced (page 751 from ArubaOS_6.2CRG.pdf)
    o This will give statistics on the radio.
- show ap arm history ap-name <ap name> (page 678 from ArubaOS_6.2CRG.pdf)
    o This will give the history of changing the channels with the FLGS for the reason why.
- show ap arm neighbors ap-name <ap name> (page 680 from ArubaOS_6.2CRG.pdf)
    o This will allow you to see what SSID's are around, channels and the SNR.
    o Another way to get this list including the current broadcasted SSID by the AP and everything around would be show ap monitor ap-list ap-name <ap> (page 823 from ArubaOS_6.2CRG.pdf)
- show ap arm rf-summary ap-name <ap name> (page 681 from ArubaOS_6.2CRG.pdf)
    o This will provide the interference index.

As a high level this is how we are choosing the clients that we will perform tests on:

- Clients that are not in power saving mode OR they are doing traffic (validate using datapath) AND the client is in post authentication role.
- We will get status on X amount of clients that will let us understand the percentage of BAD service. (X would be an average amount of clients in the post authentication role / depending on the usage Day or Week)