

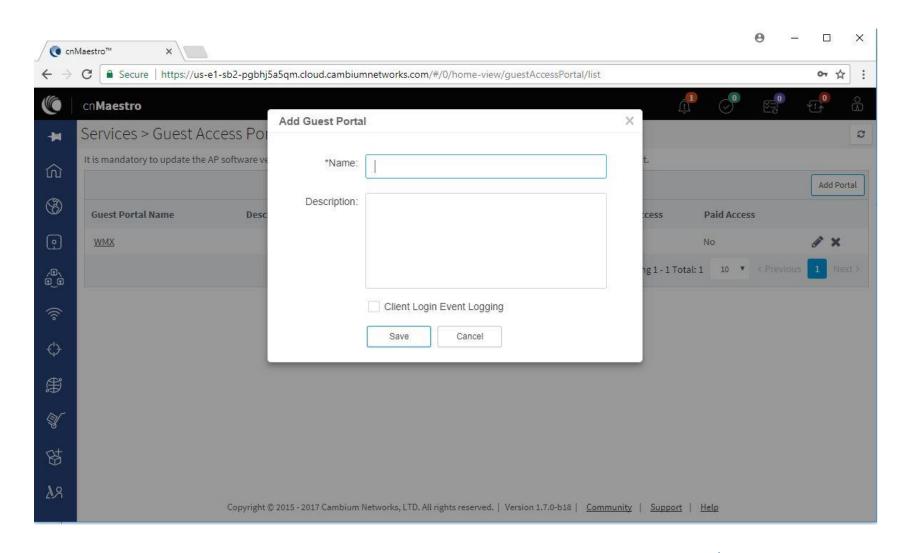
## **Guest WLAN without VLANs or Tunneling**

Dave Moore Sr Director, Wi-Fi Business Acceleration Cambium Networks



## **Create New Guest Portal**

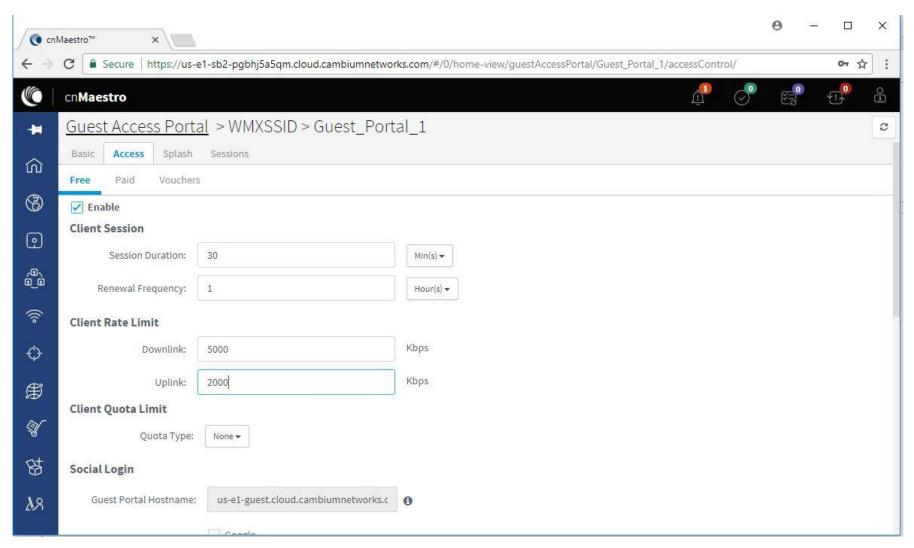
- Provide a Name and write this down. You will need this name later when configuring the Guest WLAN
  - Spaces are not allowed, but an underline is
- The Description is optional, but advisable
- Enabling Client Event Logging is advisable
- Click Save or this information will not be saved

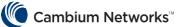




## **Configure Access Options**

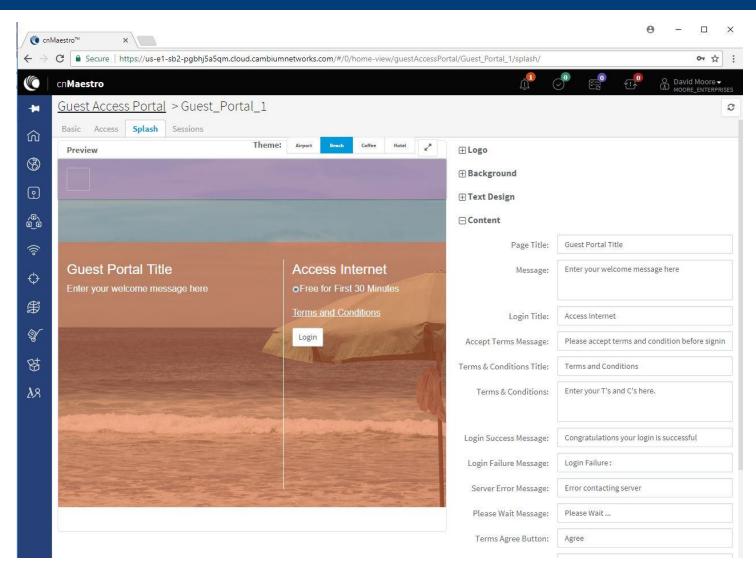
- If Free access is desired, enable and configure options
- Configure Paid and Voucher settings if desired
- Click Save at the bottom of the screen or these changes will not be saved.





## Splash Page Configuration

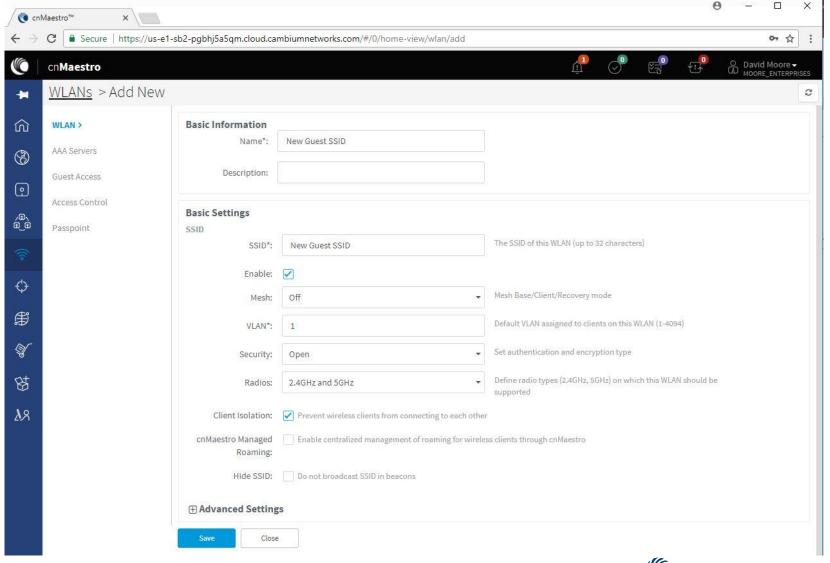
- Choose the Theme desired
- Fill in Details
  - Title
  - Message
  - Terms and Conditions title and content
  - Free Access message details
  - Any others desired
- Click Save at the bottom of the screen or this will not be saved.

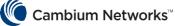




#### **Create new WLAN**

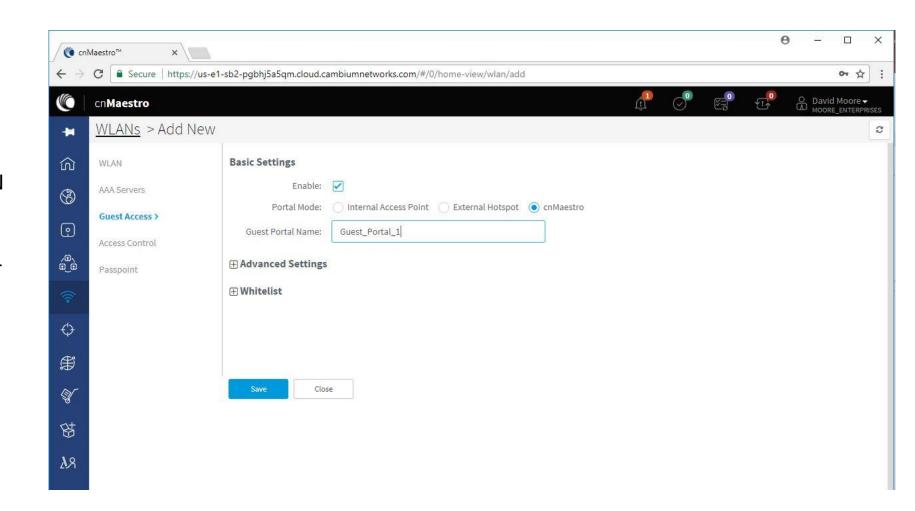
- Add a new WLAN
- Provide a Name
- Enable Client Isolation to protect guests from each other
- Click Save





## Tie Guest Portal to Guest WLAN

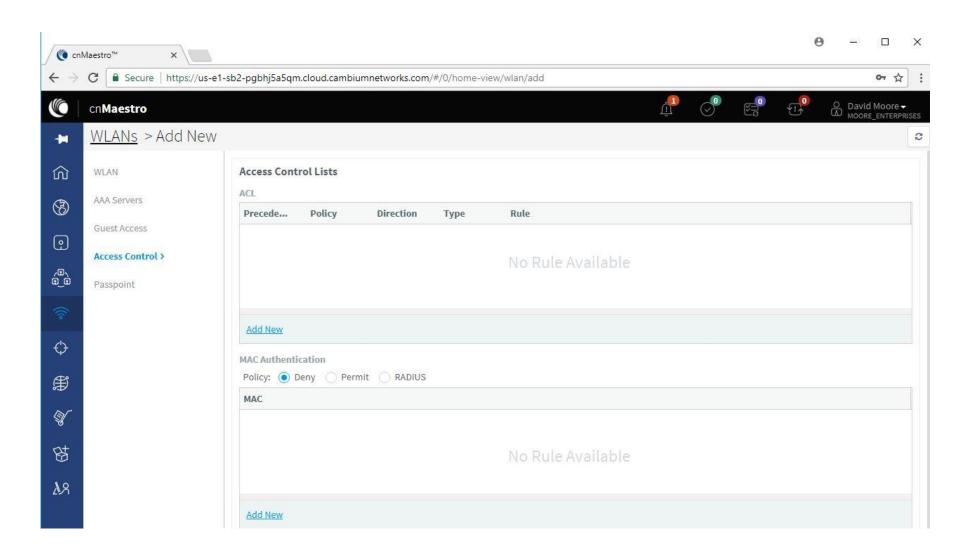
- Enable Guest Access for WLAN
- Select cnMaestro for the Portal Mode
- Enter the exact name used for the Guest Portal created earlier
- Click Save

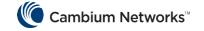




#### **Access Control List**

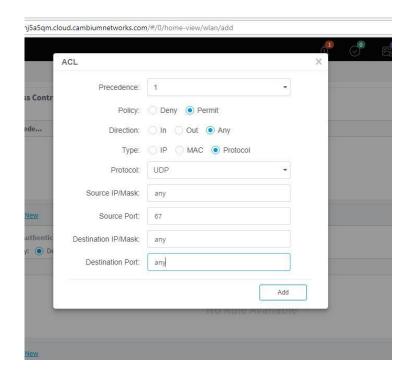
- An Access Control List will be used to block Guests from the internal network
- If VLANs or Tunneling is used, this method may not be necessary, but it would not hurt to use it anyway.

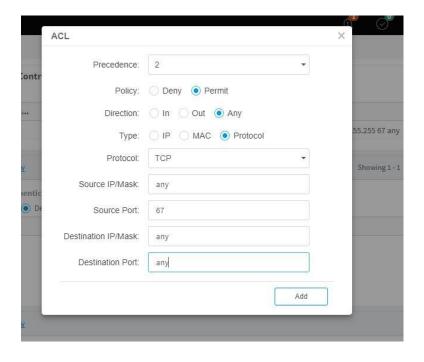


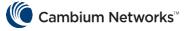


## **ACL Entries to Allow DHCP Responses into WLAN**

- Create 2 new entries for DHCP
  - UDP is most typically used
  - TCP is rarely used, but to be safe include this entry
- The order of entry is important
- Pay careful attention to the Precedence number used, it is easy to accidentally overwrite a previously created entry

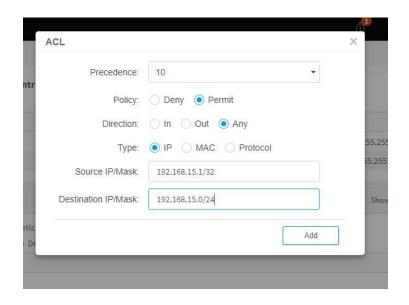


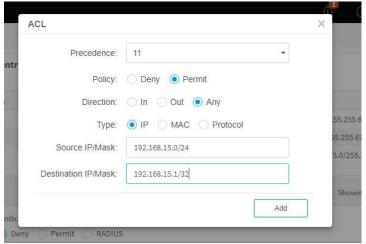


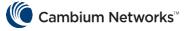


#### **ACL Entries to Allow DNS**

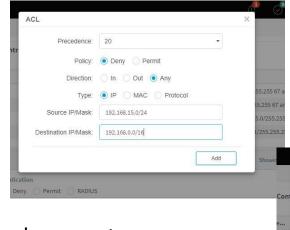
- Two Entries are needed for DNS
  - One for DNS server to WLAN
  - One for WLAN to DNS Server
- In this example 192.168.15.1 is the DNS server.
- If more than one DNS server is utilized, there should be two entries for each one
- Pay attention to the Precedence order as these entries must occur before deny entries added next



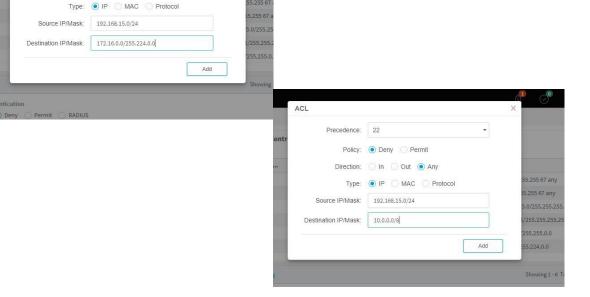


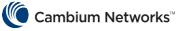


#### **Block Access to Internal Subnets**



- Three entries are needed to block access to private IP address subnets
- Each of these are deny statements
- In this example, the Guest WLAN subnet is 192.168.15/24.
- If there are multiple subnets used for the Guest WLAN, three deny entries are needed for each one

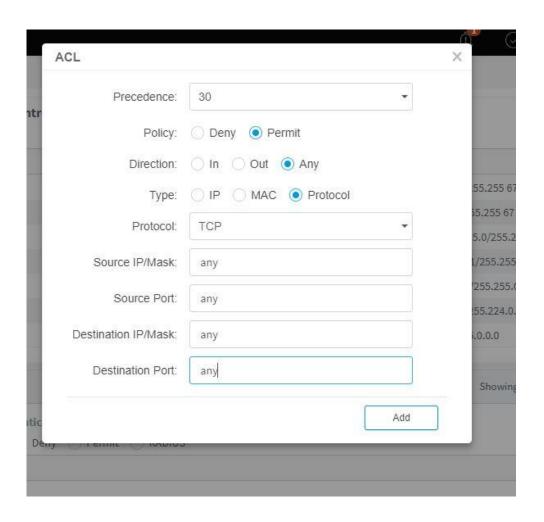




Precedence: 21

## Allow Web Traffic to Guest WLAN

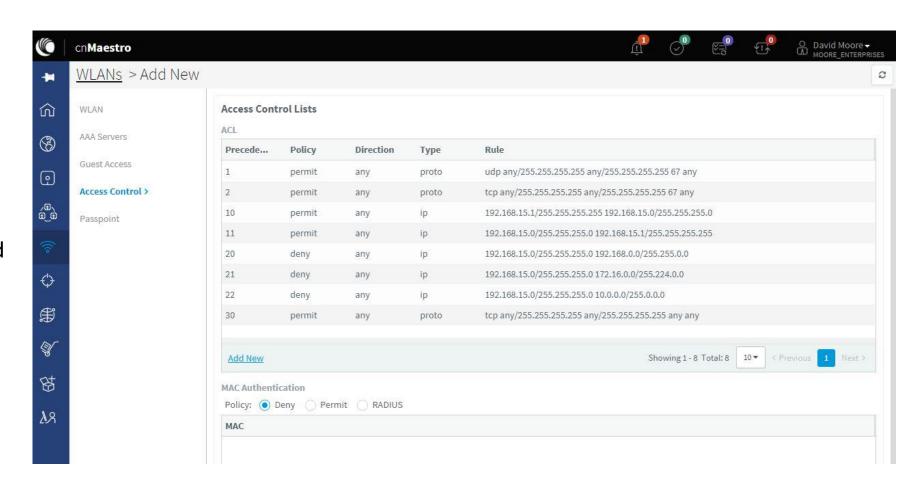
- The final ACL entry needs to be a permit statement to allow all TCP traffic
  - All valid web traffic is TCPbased
- There is an implicit deny for anything not specifically defined in the ACL list





## **ACL List Completed**

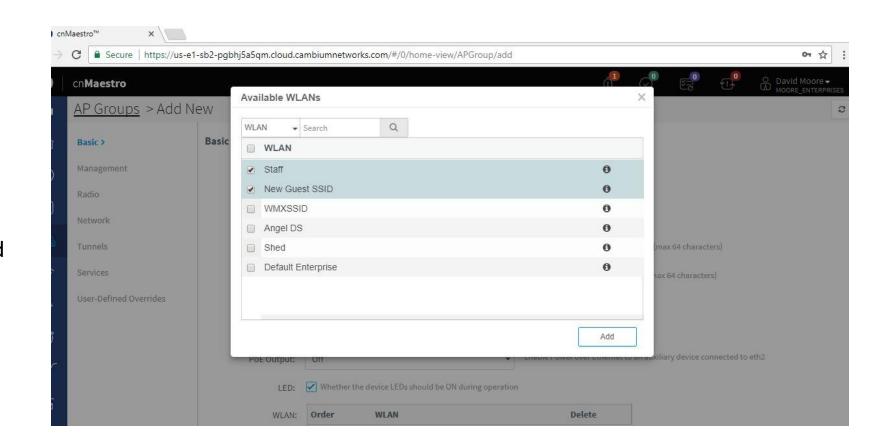
- Check over the completed ACL
- Verify the precedence order
- Verify that Permit and Deny
  Policies are correctly entered
- It is possible to edit any of the entries
- Click Save at the bottom of the screen





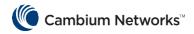
## Add Guest WLAN into AP Group

- It is assumed that an AP
   Group has already been
   created. If not, add,
   configure an AP Group, and
   Claim APs into the Group
   when ready
- Add in the WLANs to be used by this AP Group, to include the newly created Guest WLAN
- Click Save at the bottom of the screen









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