Frame delivery in Foundation MAC

Tutorial on Foundation frame delivery and relay assumptions.

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Basic strategy background:

- Stations need connectivity with:
  - Stations in same BSS.
  - Stations in other BSS of the same ESS.
  - Stations on a wired Network.
  - Outside world via gateways.
- AP's maintain BSS connectivity knowledge.
  - List of associated stations.
  - Frames for non-associated stations are forwarded to the DS.
- Stations can be in a Power Conservation mode, but AP's will always be awake.
  - Destination PM status needs to be maintained in AP.
  - Stations in sleep mode can not maintain knowledge which other stations are in reach, and awake.
  - Only CAM station can do this.
Delivery strategy background:

- Most traffic will go outside the BSS.
  - To shared resources on high speed wired segment.
  - To stations in another BSS.
- All local BSS traffic to stations using Power Save modes in practice needs to go through the AP.
- Only traffic between local stations that are continuous awake (CAM) can benefit from direct station-to-station delivery.
- AP Ack generation should not be time critical.
  - No need to check that the final Destination is outside BSS or sleeping before frame is Ack'd.

So default, all traffic from a station is sent with the "ToAP" bit on, and is Ack'd by AP.