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"Foundation MAC Tutorial" P802.11-94/120A

IEEE P802.11-94/120a March 1994 Frame delivery in Foundation MAC Tutorial on Foundation frame delivery and relay assumptions. Wim Diepstraten AT&T-GIS (NCR) By: Slide:1 of x **Tutorial:** IEEE P802.11-94/120a March 1994 **Basic strategy background:** Stations need connectivity with: - Stations in same BSS.

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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.

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March 1994 IEEE P802.11-94/120a **Delivery strategy background:** Most traffic will go outside the BSS. - To shared resources on high speed wired segment. - To stations in an other BSS. All local BSS traffic to stations using Power Save modes in practise 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. **Tutorial:** Slide:3 of x

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 So default, all tra with the "ToAP" 	affic from a station is send bit on, and is Ack'd by AP.
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Tutorial

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