

# INTERNATIONAL ROAMING

A SIMPLE APPROACH  
FOR WORLD WIDE  
DEPLOYMENT

# WHAT IS REQUIRED

- MUST MEET REGULATORY REQUIREMENTS.
  - ◆ WILL GET HELP FROM INDUSTRIES TO BRING SOME COUNTRIES IN LINE
- DESIRABLE NOT TO REV THE MAC
  - ◆ KEEP IT SIMPLE
- APPLICABLE FOR ALL PHY'S
  - ◆ THE CURRENT MAC HAS SOME PHY SPECIFIC MANAGEMENT ENTITIES
- APPLICABLE FOR IBSS
  - ◆ BUT BE CAREFULL

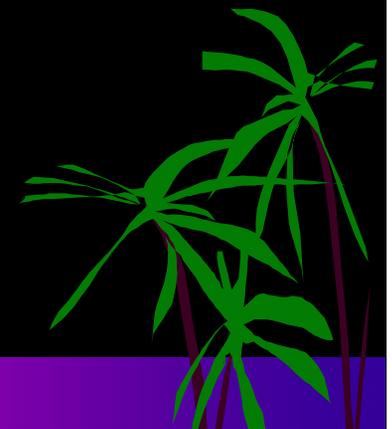
# HOW IT WORKS

- ACCESS POINTS KEEP THE COUNTRY INFO
  - ◆ THEY MUST BE CONFIGURED
- PASSIVE SCANNING USED ON MOBILE UNITS
  - ◆ CANNOT XMIT TILL A VALID CHANNEL IS KNOWN
- NEW ELEMENTS IN PROBE / PROBE RESPONSE
  - ◆ PROBE FOR COUNTRY INFO
  - ◆ RESPOND WITH COUNTRY SPECIFIC INFO



# CONFIGURATION

- ONE STA (AP?) MUST BE CONFIGURED TO CORRECT COUNTRY.
- A NEW MIB VARIABLE
  - ◆ THIS ENABLES INTERNATIONAL ROAMING
  - ◆ IF THIS VARIABLE IS SET, A STA WILL DROP BACK TO PASSIVE SCANNING IF IT LOSSES SYNC WITH IT'S CURRENT ESS.
  - ◆ APPLICABLE FOR WIRELESS AP'S

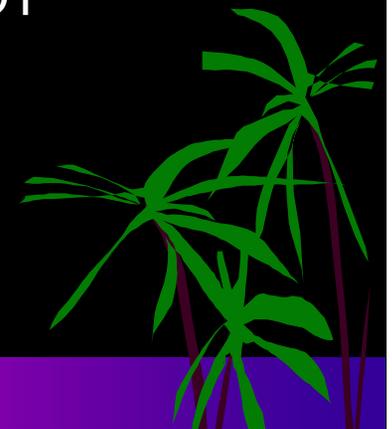


# NEW ELEMENTS

- IN PROBE
  - ◆ REQUESTS COUNTRY SPECIFIC INFO
- IN PROBE RESPONSE
  - ◆ COUNTRY NAME STRING (NOT ABSOLUTELY REQUIRED, BUT GOOD FOR PROOF OF COMPLIANCE)
  - ◆ PHY SPECIFIC DATA
    - DS, CHANNEL #S
    - FH, HOP CHARACTERISTICS

# FH ELEMENT

- FLAGS
  - ◆ 0 = 802.11, 1 = HOP DELTA
- FIRST CHANNEL
- NUMBER OF CHANNELS
- TABLE - RANDOM TO INDEX TABLE
  - ◆ LENGTH = NUMBER OF CHANNELS
  - ◆ NOTE THAT HOP DELTA COUNTRIES DO NOT INCLUDE THIS TABLE



# DS ELEMENT

- FIRST CHANNEL
- NUMBER OF CHANNELS

