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 CAREFUL
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 SPECIFICDATA
    - 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