CAM Block

Per Station Entries

- Entry 0
  - MAC address

Encrypt Type

- Key Content
  - 32 bytes, can be configured to one of the following
    - 4 WEP64 keys, 4*5
    - 2 WEP128 keys, 2*13
    - 1 WEP256 key, 1*29
    - 1 TKIP keys, 1*32
    - 2 AES key, 2*16

Entry 39
- MAC address

Encrypt Type

- Key Content
  - 32 bytes, can be configured to one of the following
    - 4 WEP64 keys, 4*5
    - 2 WEP128 keys, 2*13
    - 1 WEP256 key, 1*29
    - 1 TKIP keys, 1*32
    - 2 AES key, 2*16

Default Key (unmatched) or Station Mode

- Encrypt Type
  - Key Content
    - 32 bytes, can be configured to one of the following
      - 4 WEP64 keys, 4*5
      - 2 WEP128 keys, 2*13
      - 1 WEP256 key, 1*29
      - 1 TKIP keys, 1*32
      - 2 AES key, 2*16

VAP mode:
Entry 39, 38, 37, 36 are used to store VAPs’ MAC address, group encryption type, and group encryption key value

Unicast Rx: match "Per Station" MAC address to find the decryption key
Broadcast Rx: should not occurs
Unicast Tx: match "Per Station" MAC address to find the encryption key
Broadcast Tx: match "Per Station" MAC address to find the encryption key (will be Entry 36-39)

In any case if MAC address is not matched, the key in "Default Key" area will be used for de-/encryption.

Register 0x700 is used for mapping the IV field key id to the actual key content in "Per Station" CAM area.
For the "unmatched" case, key id in IV field will be used to locate the actual key stored in Default Key" area.