CCNP Route Master Study Guide

1.0 Network Principles

1.1 Identify Cisco Express Forwarding concepts

- **GENERAL CONCEPT**
    - Considered as switching within routers
    - Enables faster packet transfer from one interface to another
    - This is due embedding relevant information in hardware
- **PROCESS-BASED SWITCHING**
    - Eats up CPU resources to switch packets
    - Known as *"IP Input"* in the CPU table
- **FAST SWITCHING**
    - Store data in *"Fast Switching Cache"* for faster lookups
    - CPU would have more breathing room
    - Packet would first need to be analyzed by the CPU before entering the cache
    - Does not track the routing table so the cached entry aging out may take a bit
- **CISCO EXPRESS FORWARDING**
    - Pre-populated cache, downloads information from arp/etc as soon as available
    - Enabled by default on routers and multilayer switches
    - CEF cannot be disabled on switches due to specialized hardware
    - Some packets on switches *cannot* be CEF-switched:
        - ARP Requests (Glean)
        - Packets requiring response from router CPU such as MTU too large
        - Routing Protocol Traffic
        - CDP or LLDP
        - Packets needing encryption

1.1.a FIB

- **A.K.A.** *"Forwarding Information Base"*
    - Shadow copy of the routing table
    - AD, Tags, Metrics, and more are not included in the FIB table
- **VERIFICATION**
    - `show ip cef [detail]`
    - `show ip cef <ip address><mask> detail`

1.1.b Adjacency Table

- **GENERAL CONCEPT**
    - Pre-Populated with L2 tables such as:
        - ARP Table
        - Frame-Relay Map Table
    - If FIB does not have a specific IP address....
        - An ARP request is sent out so that it can be seen in the FIB as 'attached'

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Wendell Odom,David Hucaby,Kevin Wallace

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