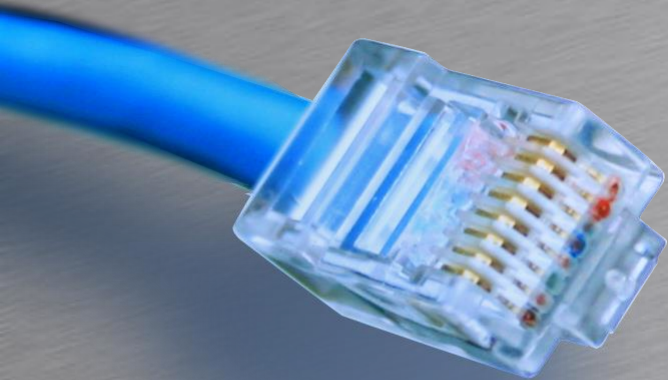


Software



HOUSE OF
TECHNOLOGY



- en del af **mercantec**⁺

Internetworking Operating System

TDC IP telefoni Scale



Router



- Virker som en computer
 - RAM
 - FLASH
 - Interfaces
 - Operativ system
 - Programmer
 - Services





Router/Switch

- Lagerplads
 - RAM
 - ROM
 - NVRAM
 - Flash

| Memory | Volatile / Non-Volatile | Stores |
|--------------|-------------------------|--|
| RAM | Volatile | <ul style="list-style-type: none">• Running IOS• Running configuration file• IP routing and ARP tables• Packet buffer |
| ROM | Non-Volatile | <ul style="list-style-type: none">• Bootup instructions• Basic diagnostic software• Limited IOS |
| NVRAM | Non-Volatile | <ul style="list-style-type: none">• Startup configuration file |
| Flash | Non-Volatile | <ul style="list-style-type: none">• IOS• Other system files |



Router

- Indmad
 - Nu har i set et billede så behøver i ikke splitte en ad.

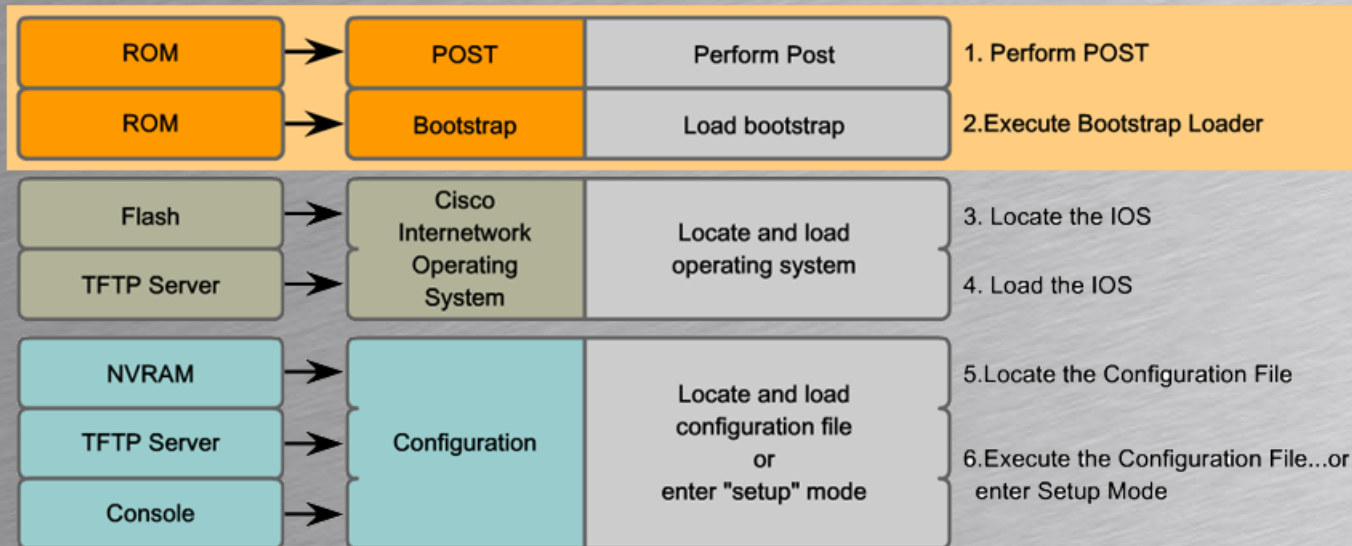




Router

- Opstarts rækkefølgen

How a Router Boots Up

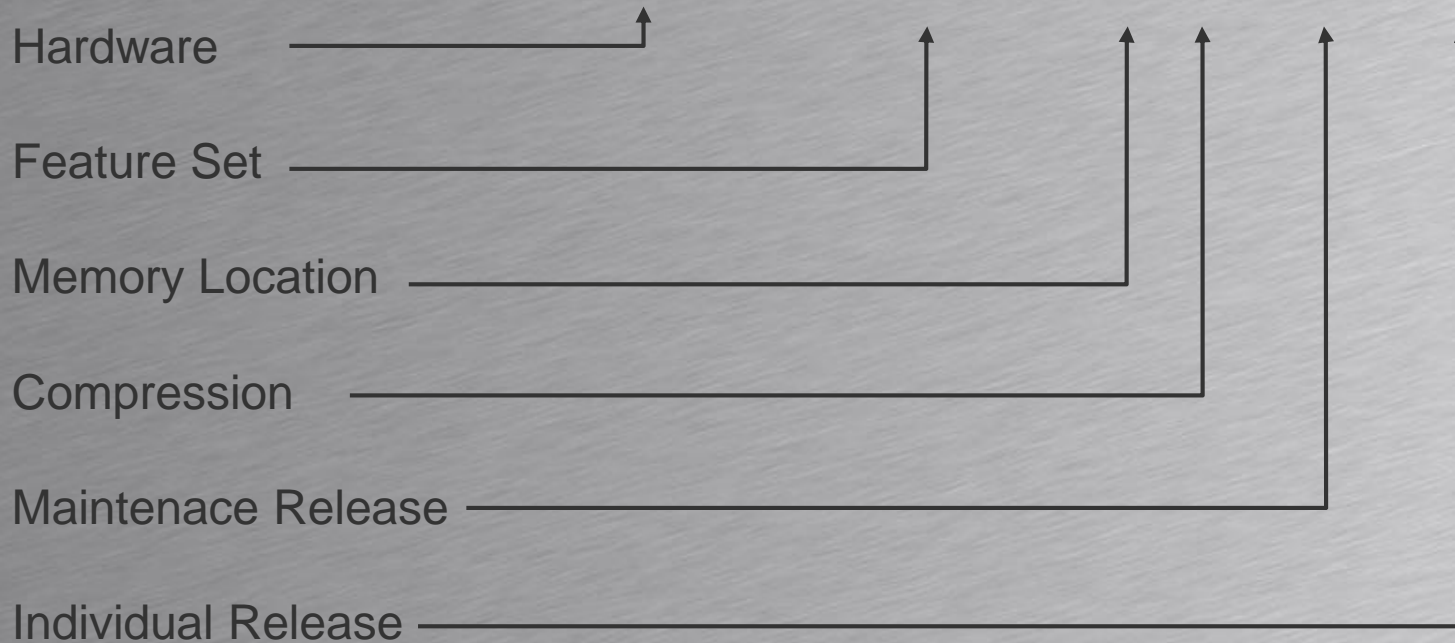




Router/switch

- Versions er af IOS

c2960-lanbase-mz.122-25.SEE2.bin





IOS/Router

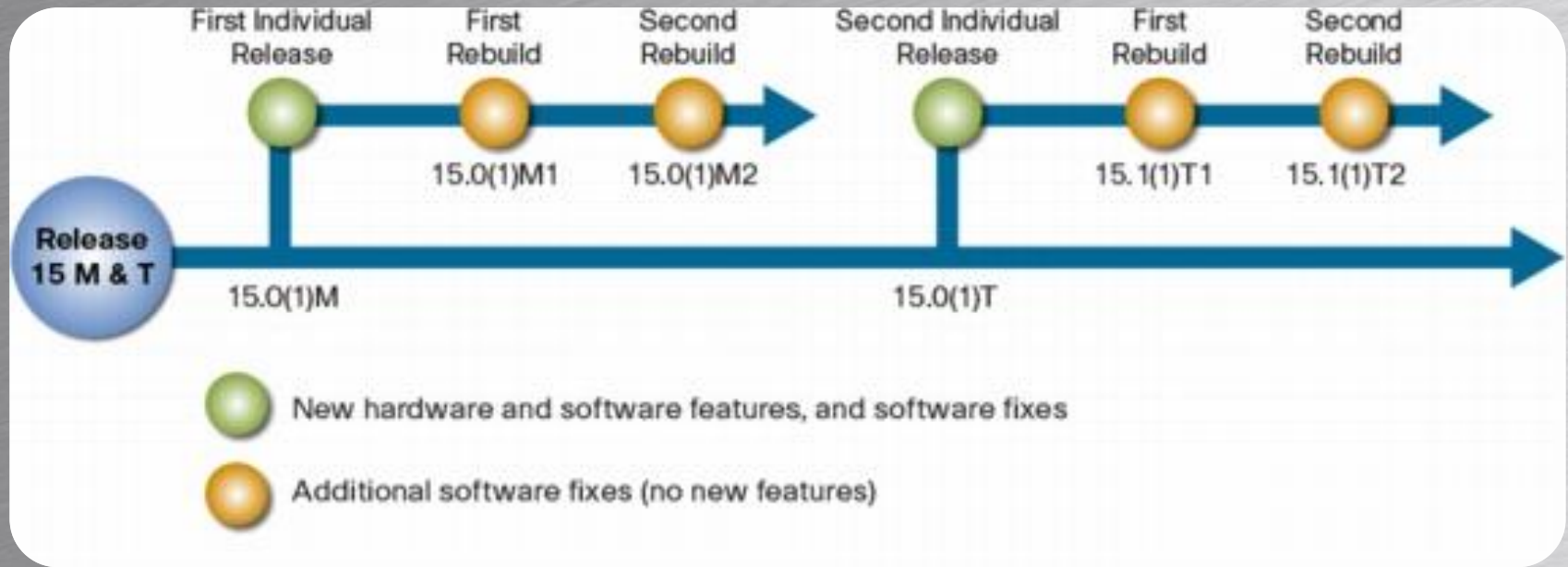
- M Releases
 - Extended maintenance
 - Lang support tid
- T Releases
 - Standard Maintenance
 - Nyeste features





IOS/Router

- Rebuild Version





IOS/Switch



- Feature sets

| Name | Features |
|-------------|---|
| LAN Lite | Enterprise EntryLevel Layer 2 Switching |
| LAN Base | Enterprise Access Layer 2 Switching |
| IP Base | Enterprise Access Layer 3 Switching |
| IP Services | Advanced Layer 3 Switching |

- LAN Lite
 - CDP, DTP, VTPv2, LLDP, 802.1X, 802.1Q, STP



IOS/Switch

- Feature sets

| Name | Features |
|-------------|---|
| LAN Lite | Enterprise EntryLevel Layer 2 Switching |
| LAN Base | Enterprise Access Layer 2 Switching |
| IP Base | Enterprise Access Layer 3 Switching |
| IP Services | Advanced Layer 3 Switching |

- LAN Base

- Samme som LAN Lite
- VTPv3, FlexLinks
- Mere QoS
- Avancerede features under de fleste emner



IOS/Switch

- Feature sets

| Name | Features |
|-------------|---|
| LAN Lite | Enterprise EntryLevel Layer 2 Switching |
| LAN Base | Enterprise Access Layer 2 Switching |
| IP Base | Enterprise Access Layer 3 Switching |
| IP Services | Advanced Layer 3 Switching |

- IP Base
 - Til Lag 3 switcher
 - RIP, OSPF, EIGRP, PIM
 - ACL, PVLAN, TrustSec



IOS/Switch

- Feature sets

| Name | Features |
|-------------|---|
| LAN Lite | Enterprise EntryLevel Layer 2 Switching |
| LAN Base | Enterprise Access Layer 2 Switching |
| IP Base | Enterprise Access Layer 3 Switching |
| IP Services | Advanced Layer 3 Switching |

- IP Services
 - Samme som IP Base
 - Flere avancerede features
 - VRF-Lite, WCCP, PBR



IOS

- IOS versionerne kan downloades i 2 formater
 - Binære filer
 - Pakkede filer

- c2960-lanbasek9-mz.122-58.SE2.bin

- c2960-lanbasek9-tar.122-58.SE2.tar



IOS

- Opdatering af kræver en server med IOS'en på
 - FTP(fil server)
 - TFTP(fil server)
 - SCP(Secure Copy)
- copy tftp: flash:
- archive download-sw /force-reload
/overwrite tftp://10.197.0.126/c2960c405-
universalk9-tar.152-2.E.tar



Opgave

- Opdatering af kræver en server med IOS'en på
 - FTP(fil server)
 - TFTP(fil server)
 - SCP(Secure Copy)
- copy tftp: flash:
- archive download-sw /force-reload
/overwrite tftp://10.197.0.126/c2960c405-
universalk9-tar.152-2.E.tar