

RPL Unaware Leaves

draft-ietf-roll-unaware-leaves

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IETF 107

ROLL Virtual Meeting

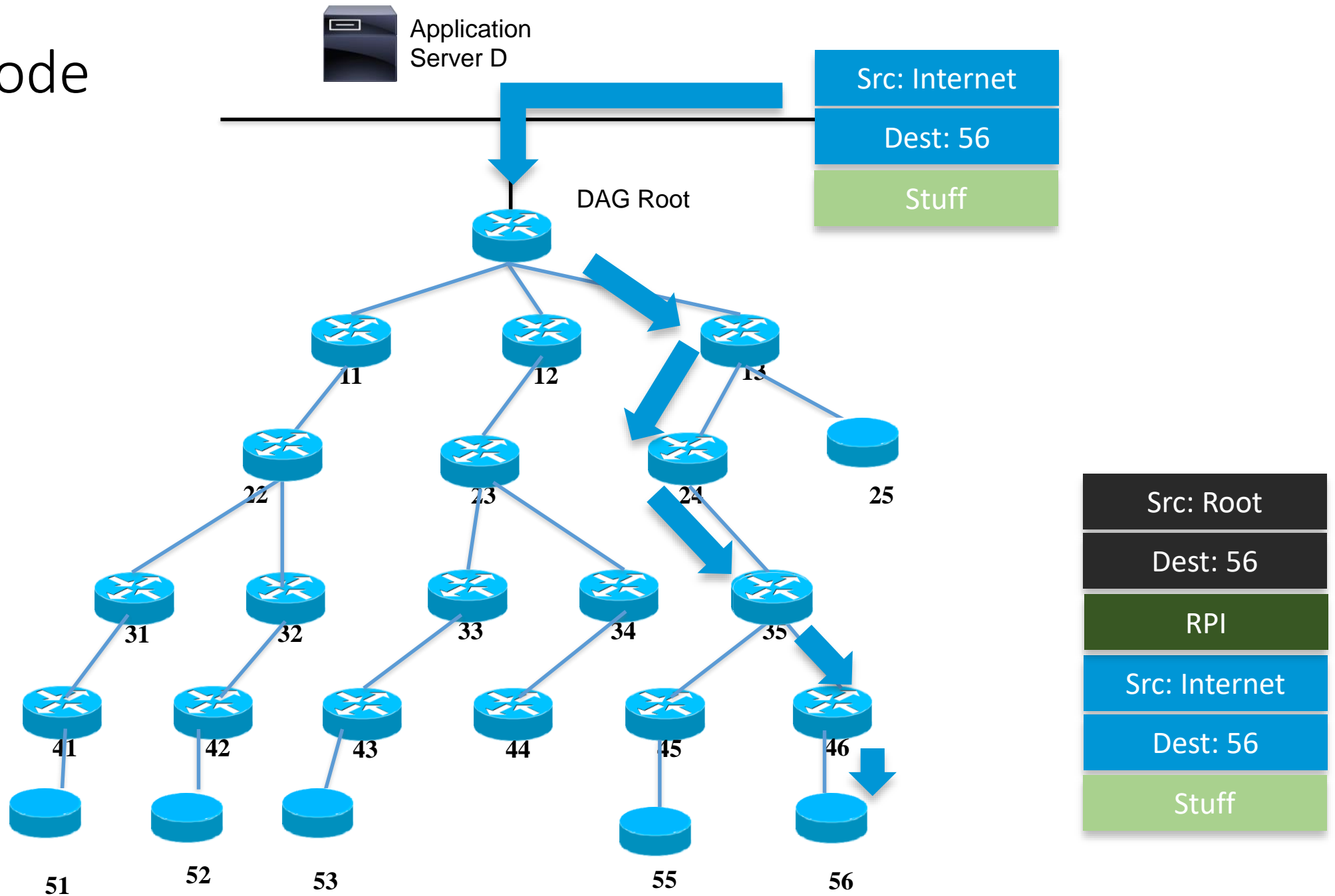
Status to the draft

- Moved from 06 to 15 since last IETF
- WG progress
- Aligning to use of RPL Info
- WGLC reviews

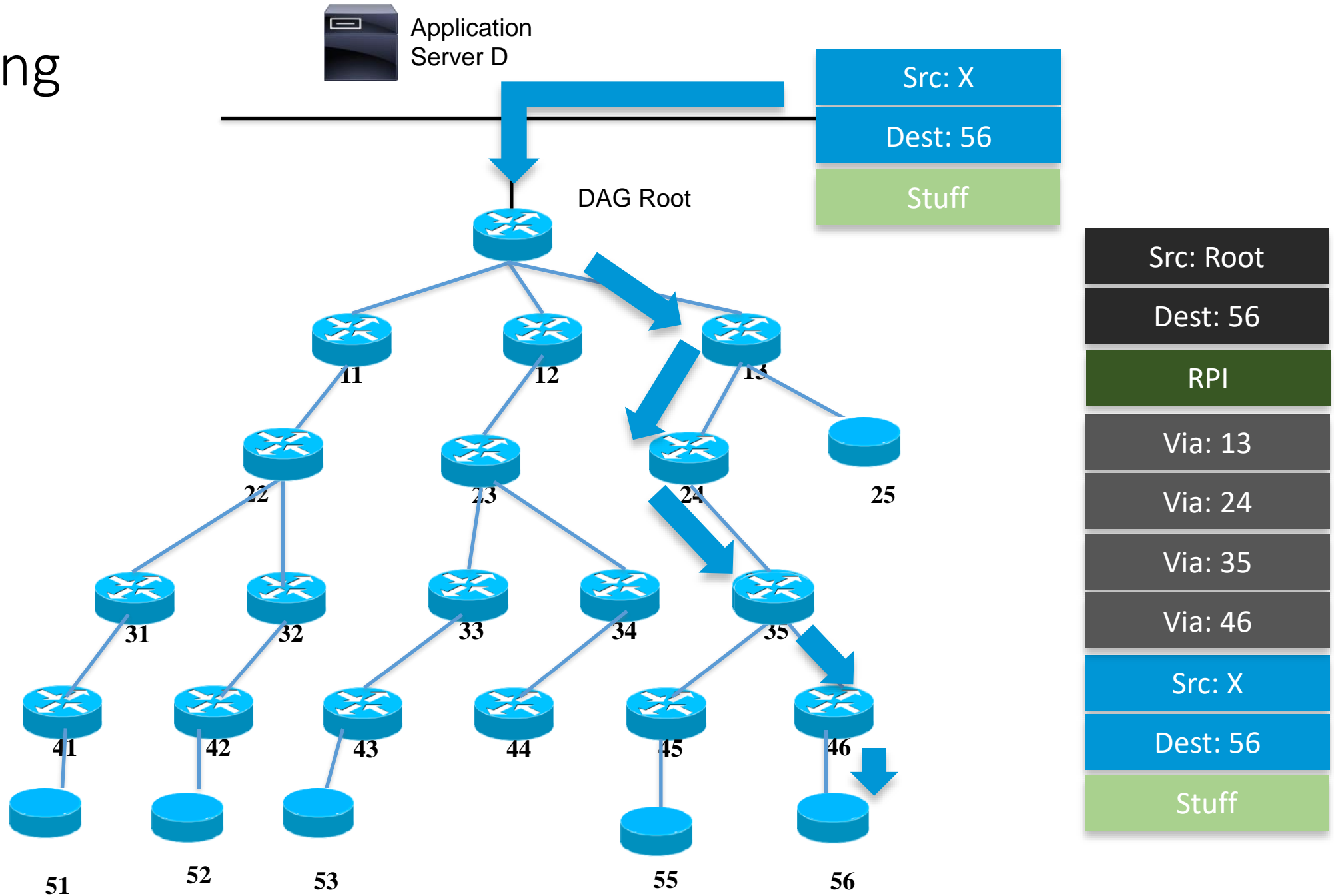
Major changes

- Improved description of RFC 8505
- Aligned to UseOfRPLInfo (section 6.2)
- Including expected support by RUL (HbH and SRH)
- Added description of 6CIO (RFC 7400)
- New "Root Proxies EDAR/EDAC" (P) Flag in RPL Config
- Added flows for registration termination
- A **lot** of editorial additions and precisions

Storing-Mode Overhead (RAN)



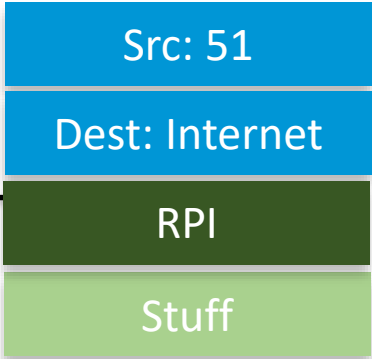
Non-Storing Mode overhead (RAN)



Storing-Mode Routing stretch (RAN)



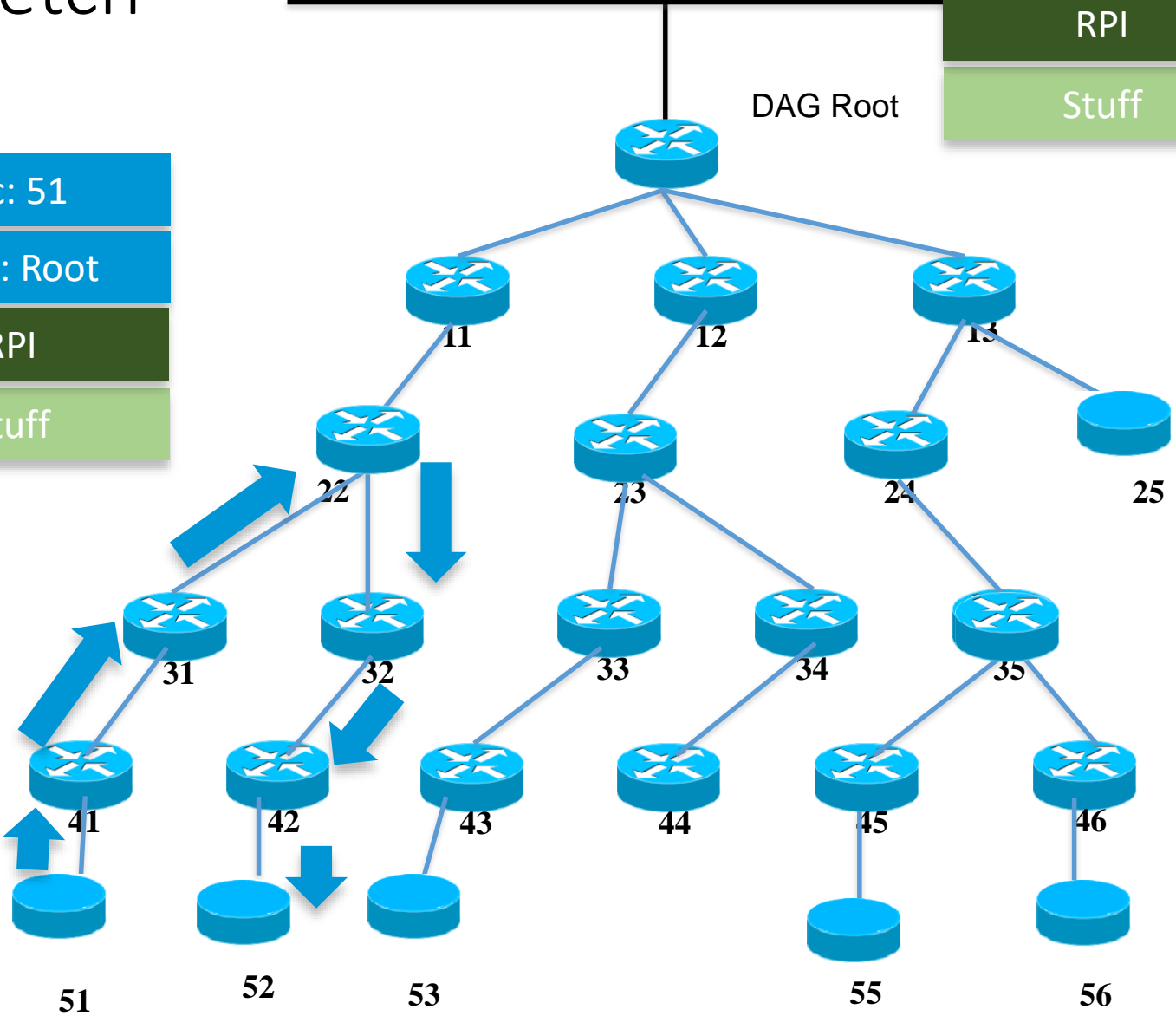
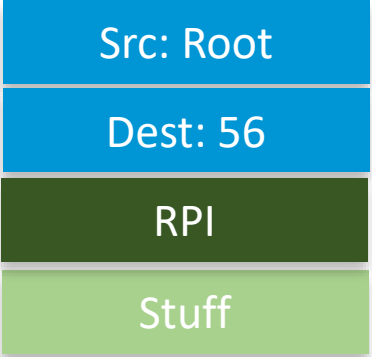
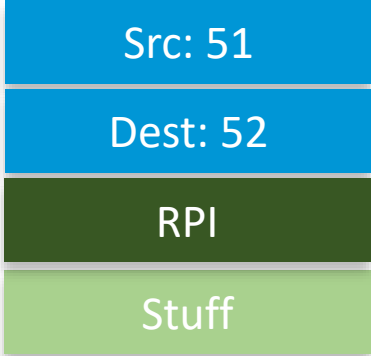
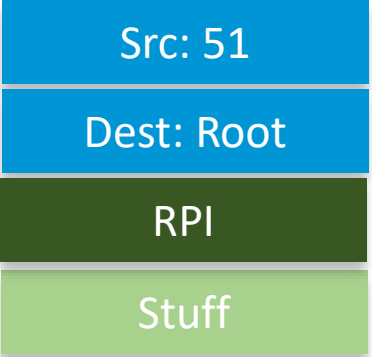
Application Server D



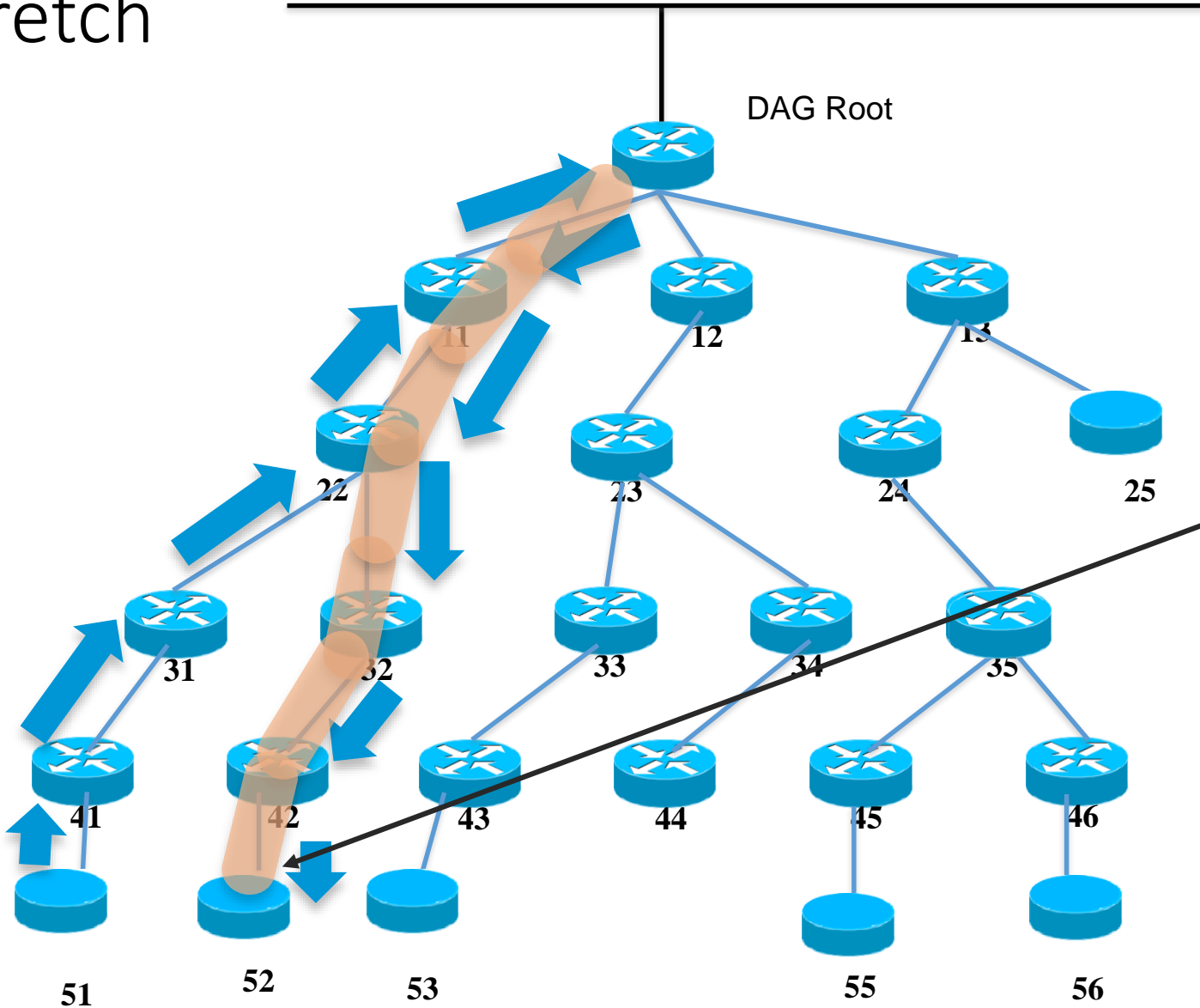
Same packet format from RAL to:

- Other RAL
- Root
- The Internet

Due to RPI option type now 0x23



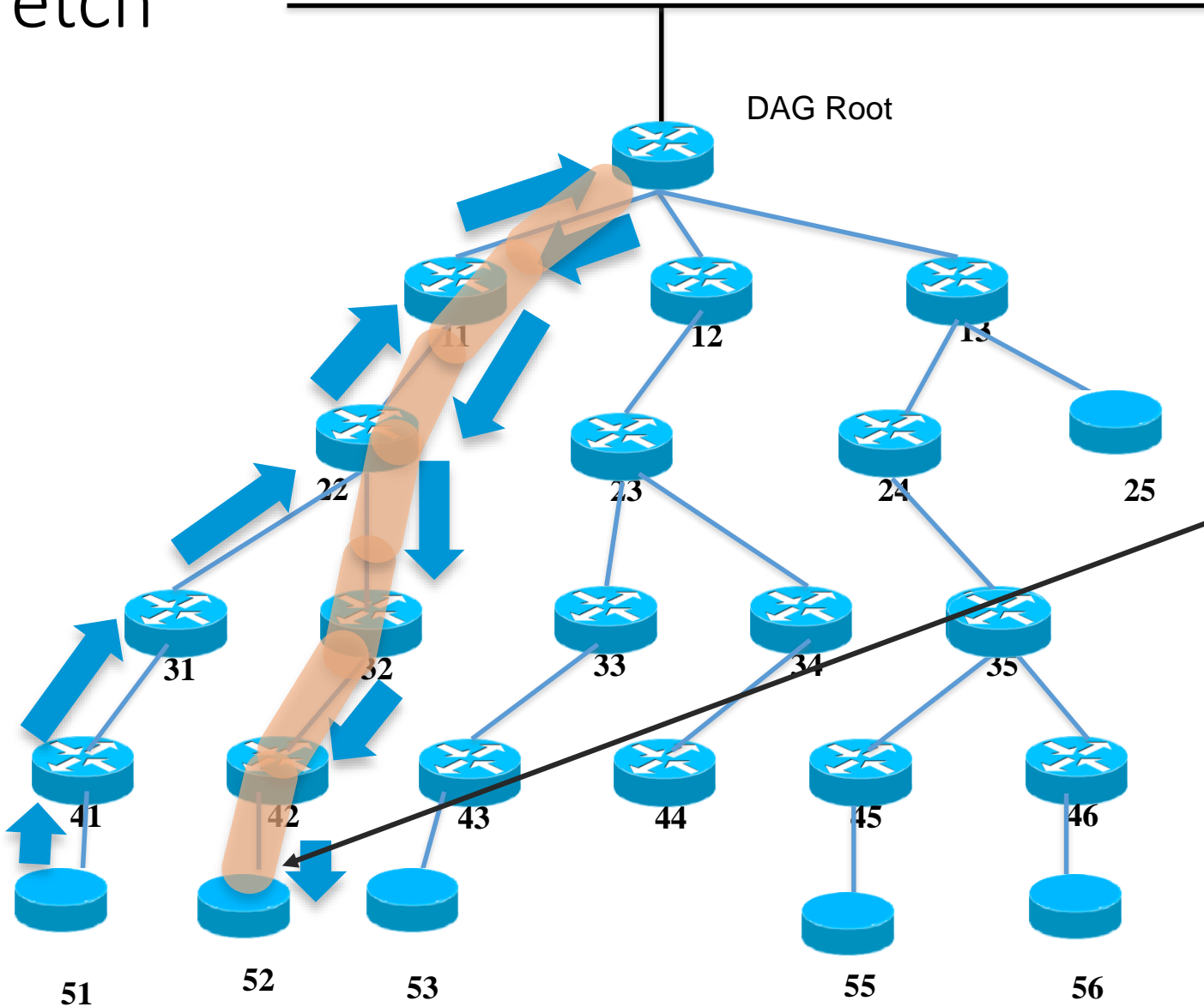
Non-Storing Routing stretch (RAN)



Src: Root
Dest: 52
RPI
Via: 11
Via: 22
Via: 32
Via: 42
Src: X
Dest: 52
RPI
Stuff

Src: 51
Dest: 52
RPI
Stuff

Non-Storing Routing stretch Alt (RAN)



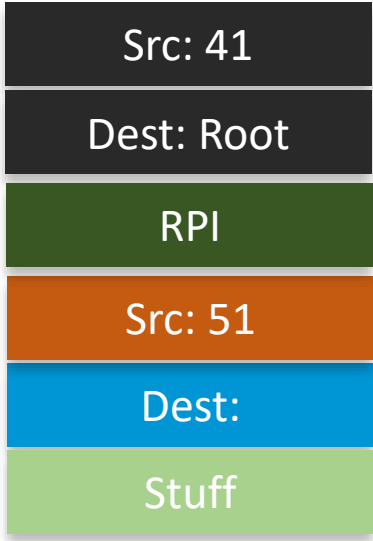
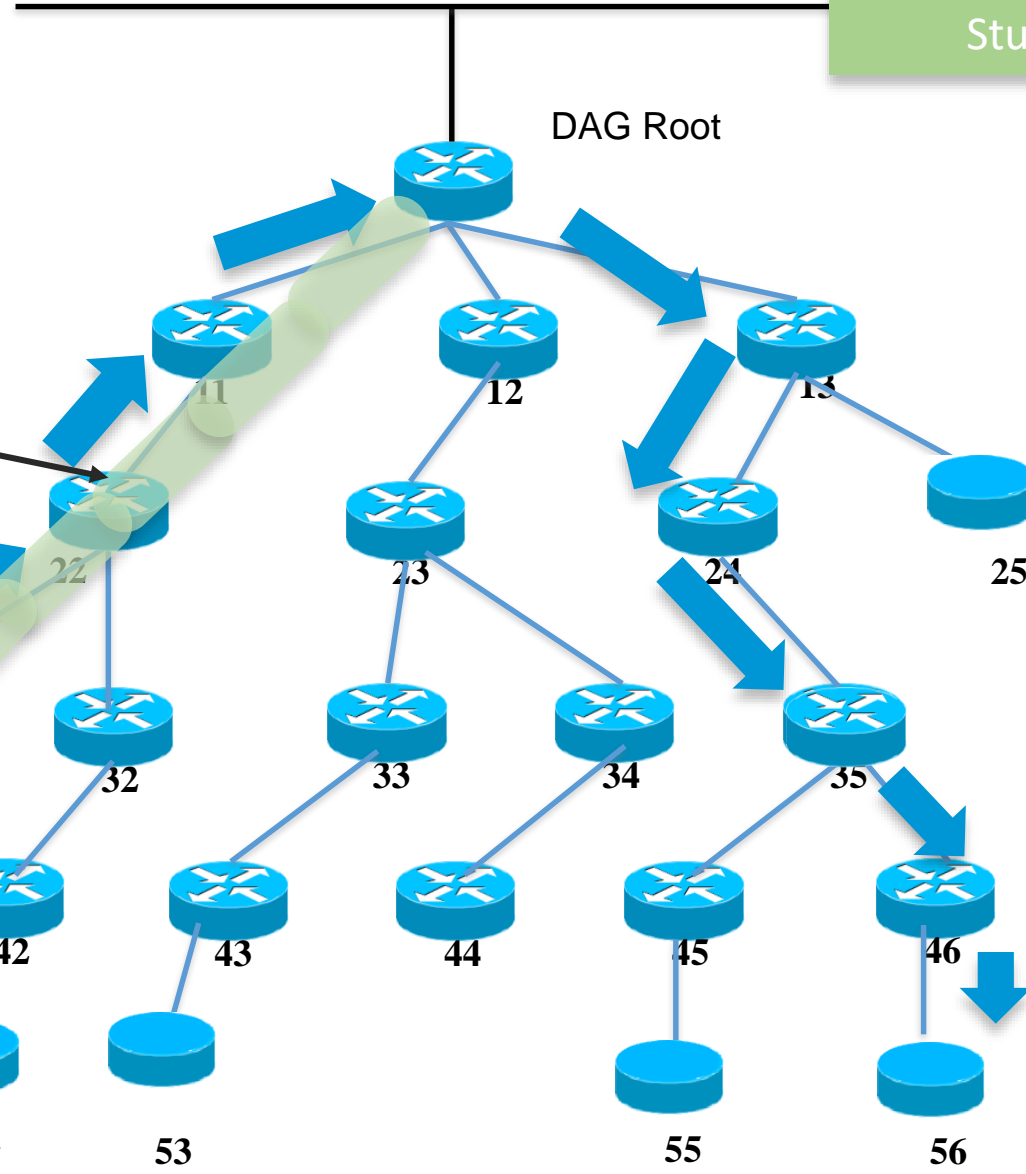
Src: 51
Dest: Root
RPI
Src: 51
Dest: 52
Stuff

Src: Root
Dest: 52
RPI
Via: 11
Via: 22
Via: 32
Via: 42
Src: X
Dest: 52
Stuff

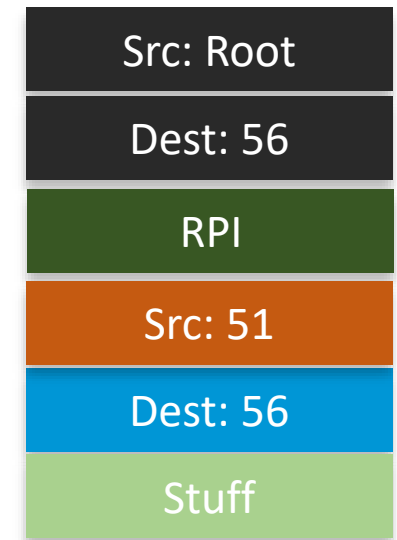
Any Mode
from RUL
To *



Application
Server D

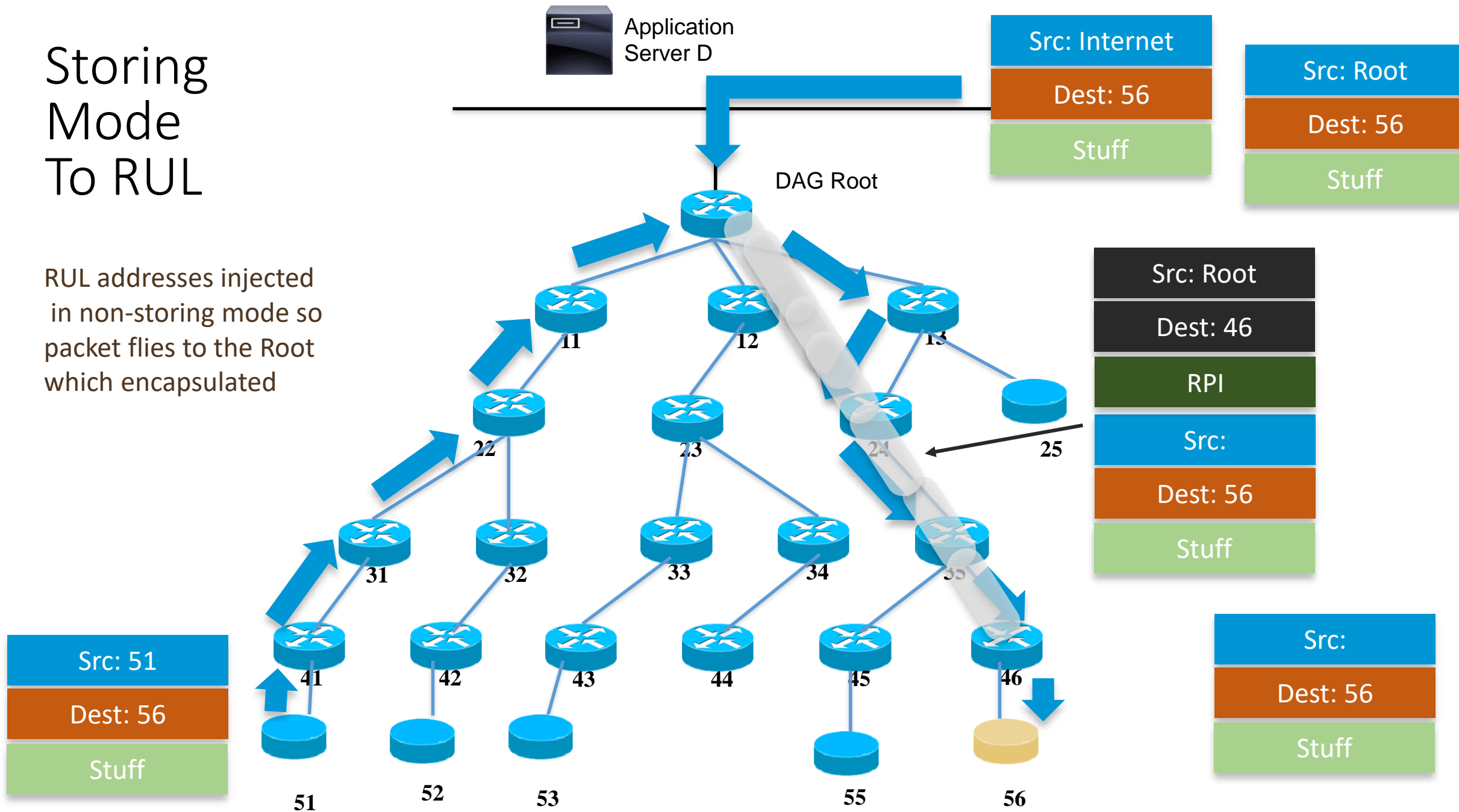


e.g. Storing
to RAN



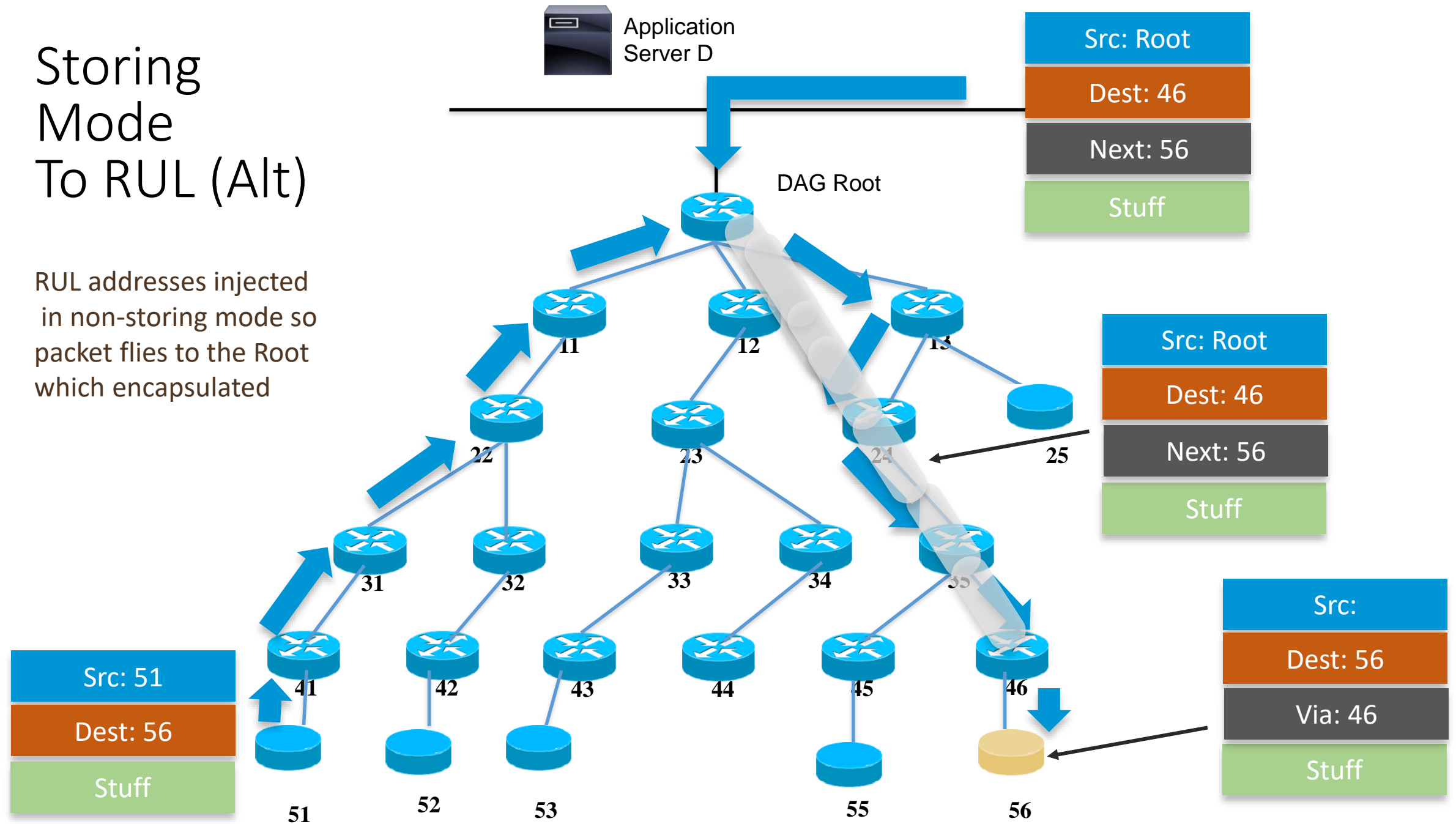
Storing Mode To RUL

RUL addresses injected in non-storing mode so packet flies to the Root which encapsulated



Storing Mode To RUL (Alt)

RUL addresses injected in non-storing mode so packet flies to the Root which encapsulated



Non-Storing Mode To RUL

RUL addresses injected in non-storing mode so packet flies to the Root which encapsulated



Application Server D

