RPL Unaware Leaves

draft-ietf-roll-unaware-leaves

Pascal Thubert

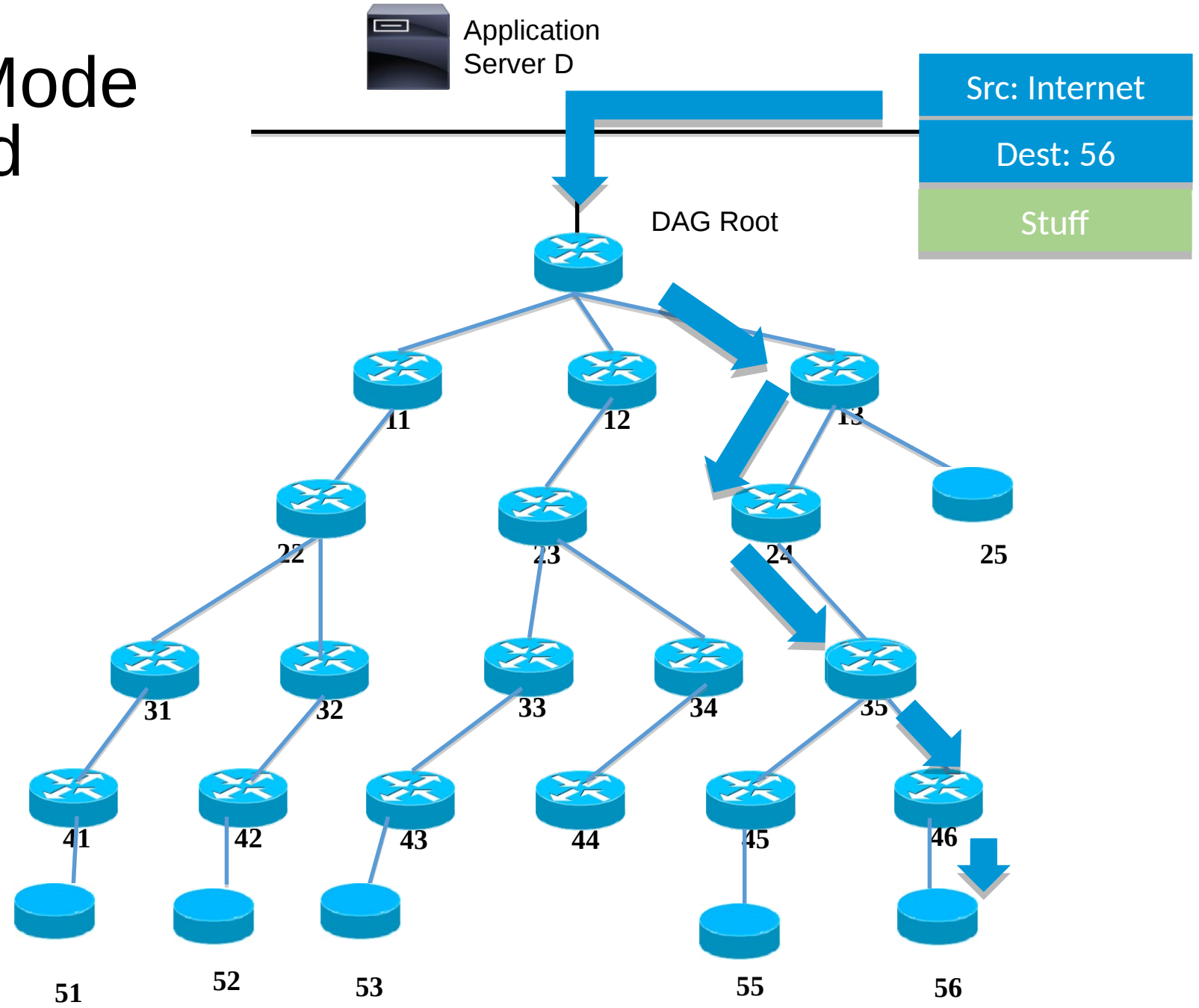
Interim Sept 30th, 2020
ROLL Virtual Meeting

Status to the draft

- AD review (thx Alvaro!) AD Evaluation::AD Followup
- Discussion on terms RUL, 6LN, 6LR; rewording there
- Blocked on the status of the RPL config option flags
- Resolution posted on 3 drafts (see useofrplinfo)
- Published -20, 21 coming up
- In Mop 7: “the Root is expected to perform the proxy operation by default.”

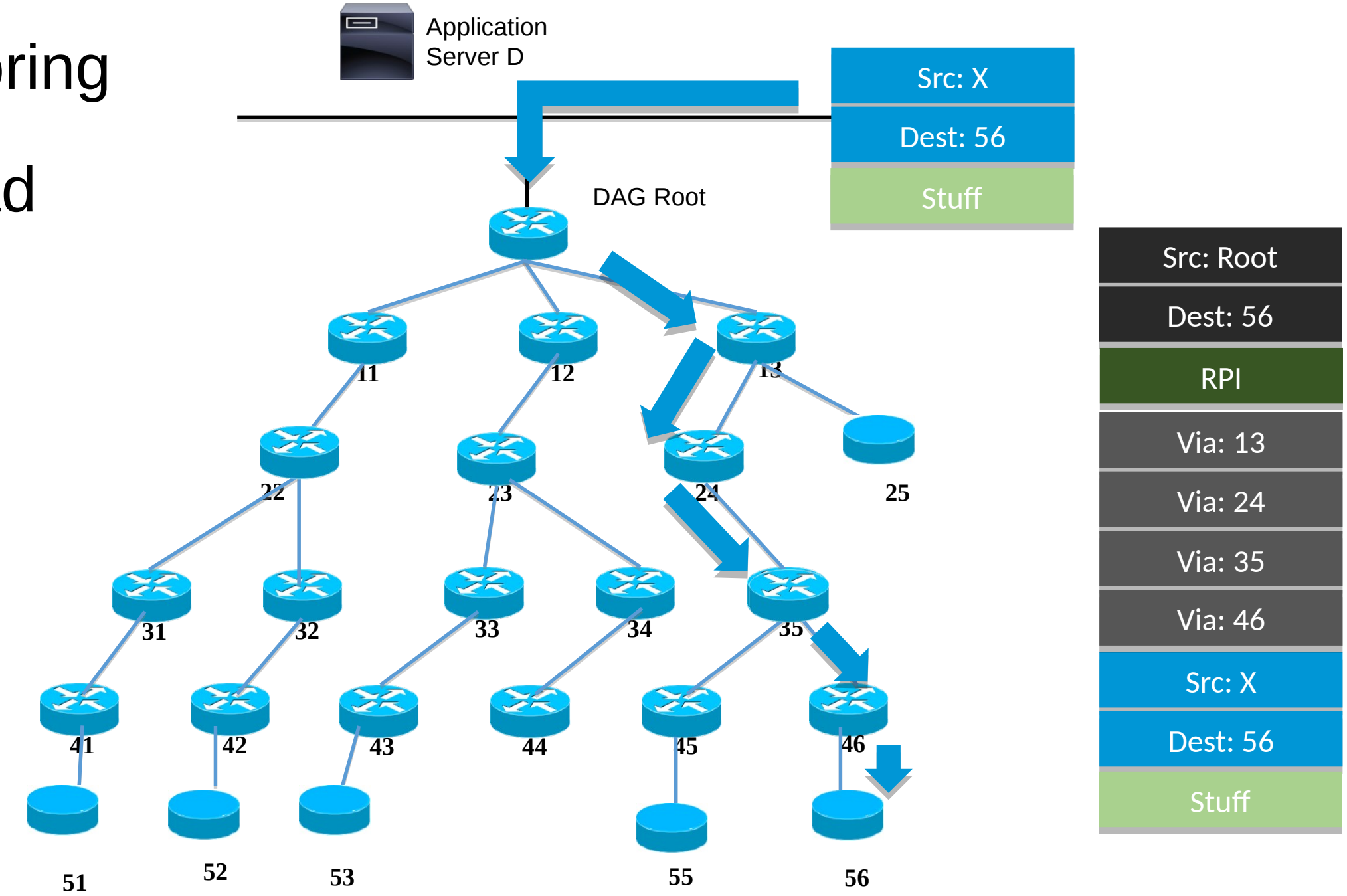
THANKS!

Storing-Mode Overhead (RAN)

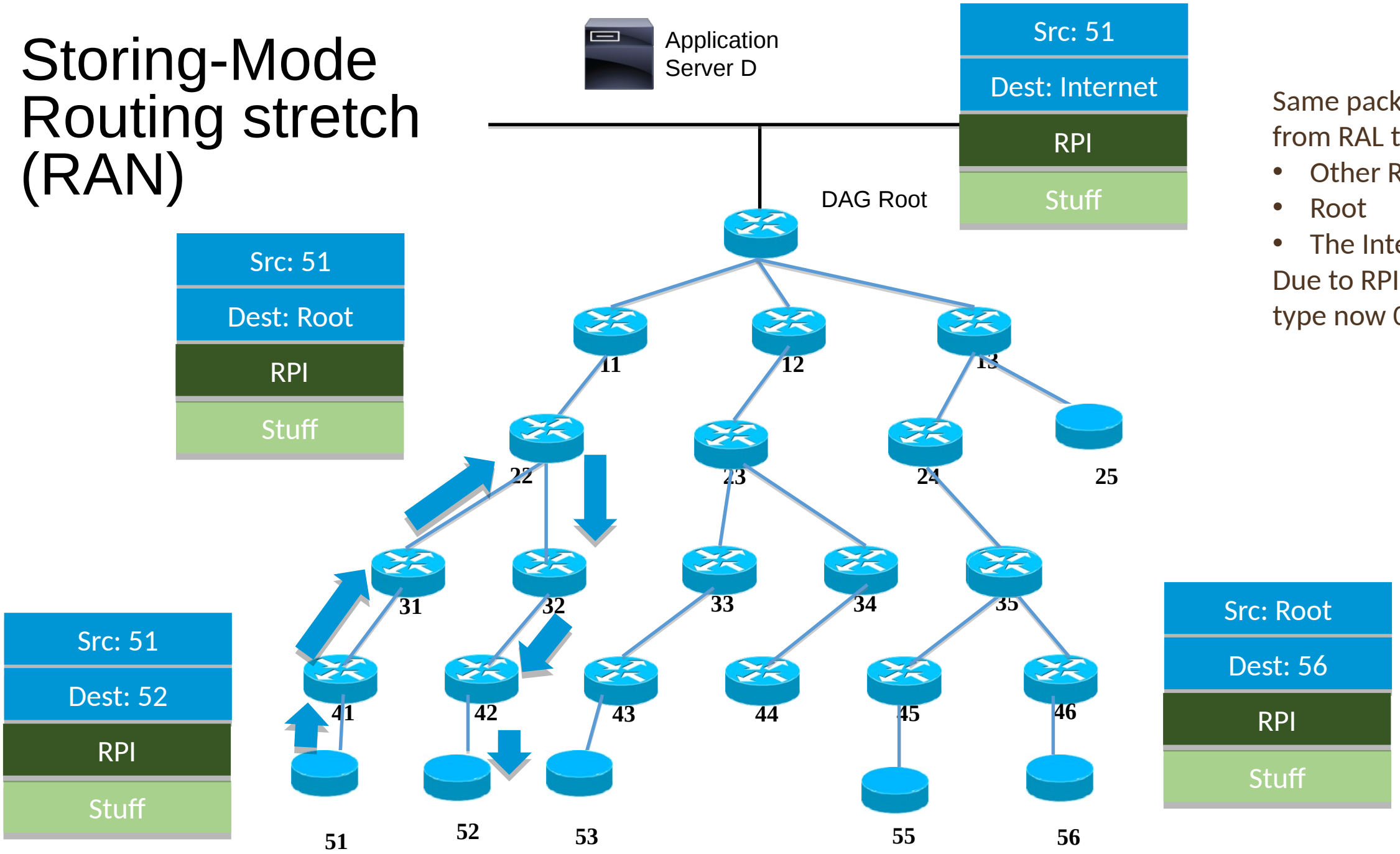


Src: Root
Dest: 56
RPI
Src: Internet
Dest: 56
Stuff

Non-Storing Mode overhead (RAN)



Storing-Mode Routing stretch (RAN)

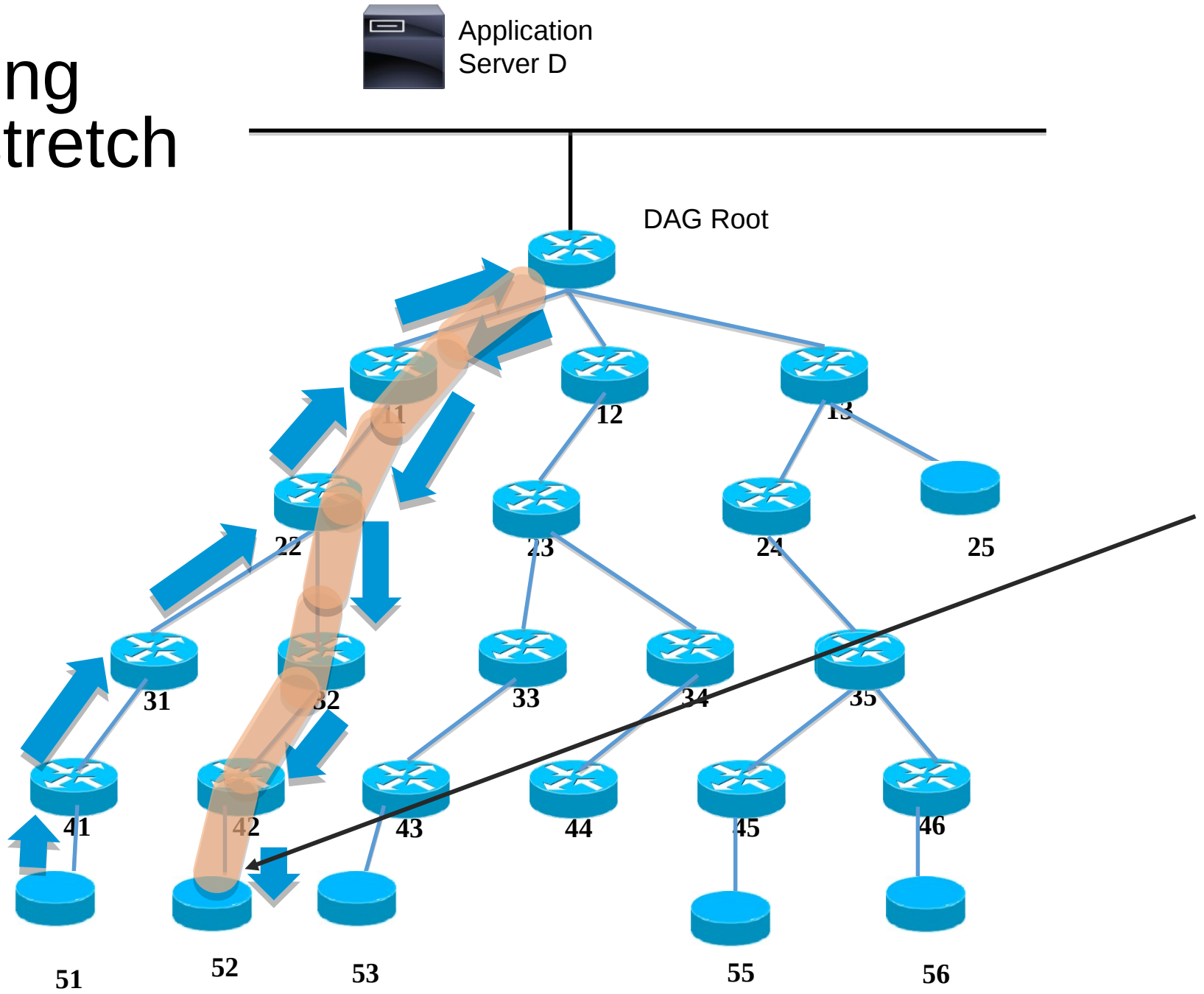


Same packet format from RAL to:

- Other RAL
- Root
- The Internet

Due to RPI option type now 0x23

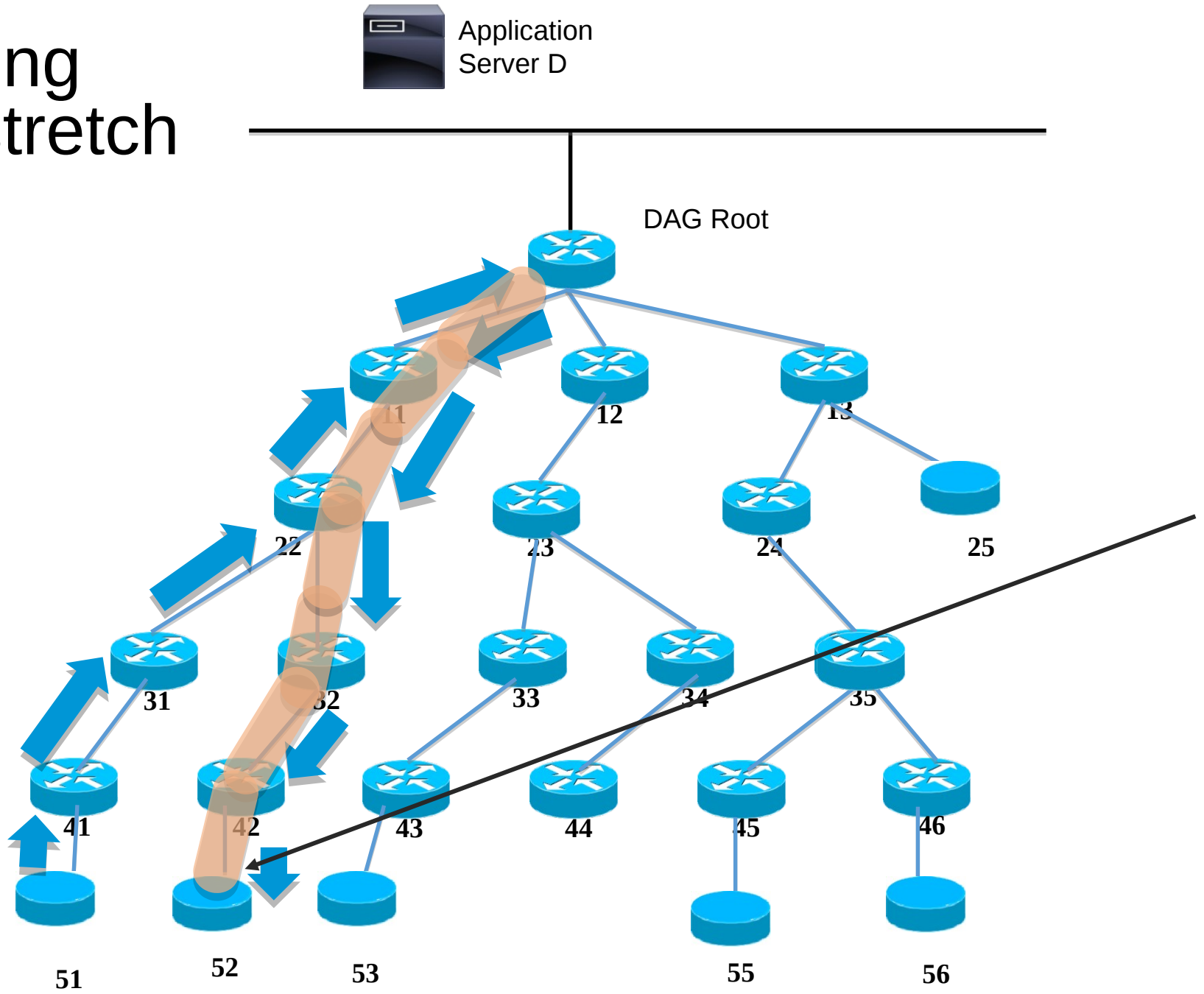
Non-Storing Routing stretch (RAN)



Src: 51
Dest: 52
RPI
Stuff

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

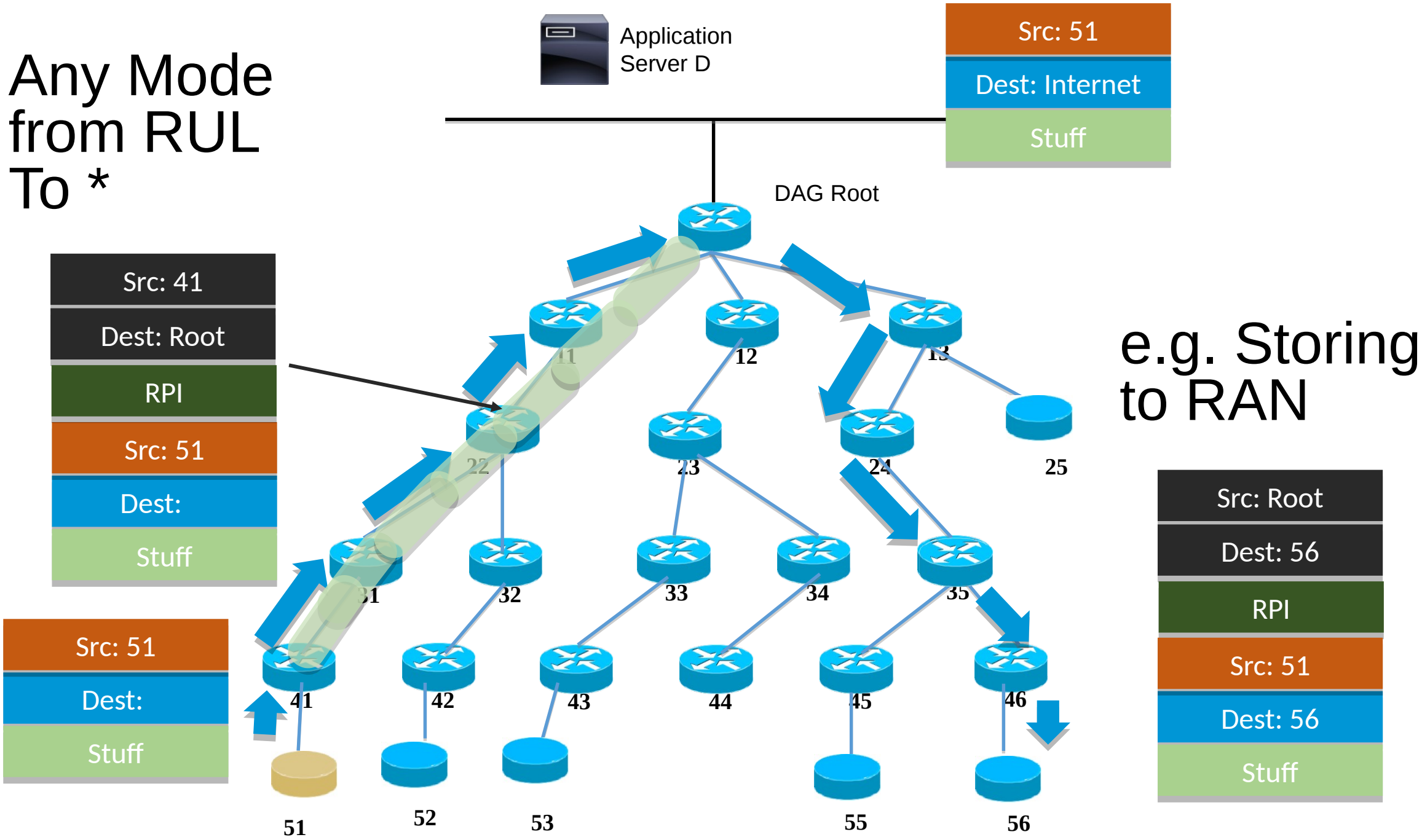
Non-Storing Routing stretch Alt (RAN)



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 *

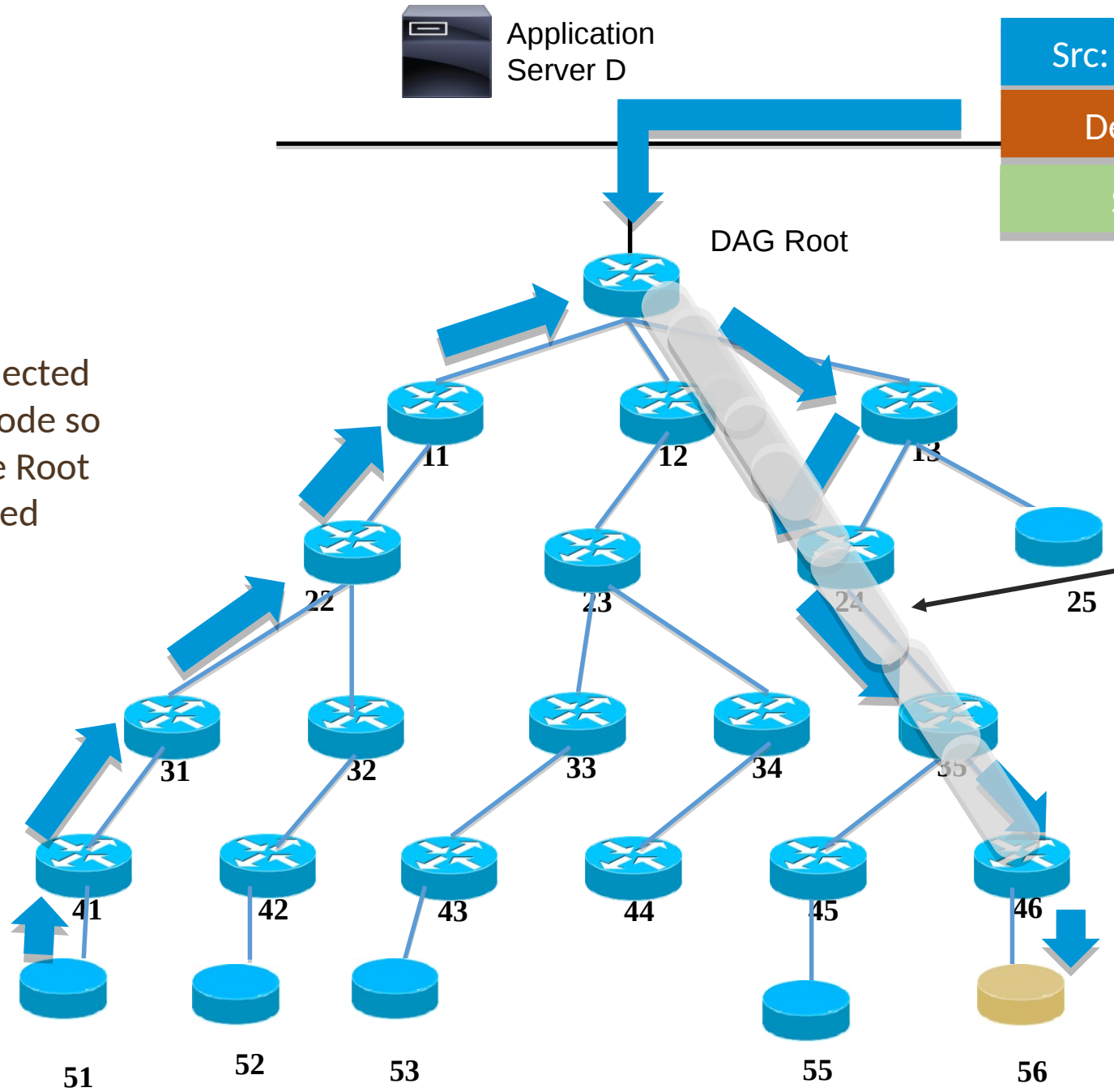


e.g. Storing to RAN

Src: Root
Dest: 56
RPI
Src: 51
Dest: 56
Stuff

Storing Mode To RUL

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



Src: Internet
Dest: 56
Stuff

Src: Root
Dest: 56
Stuff

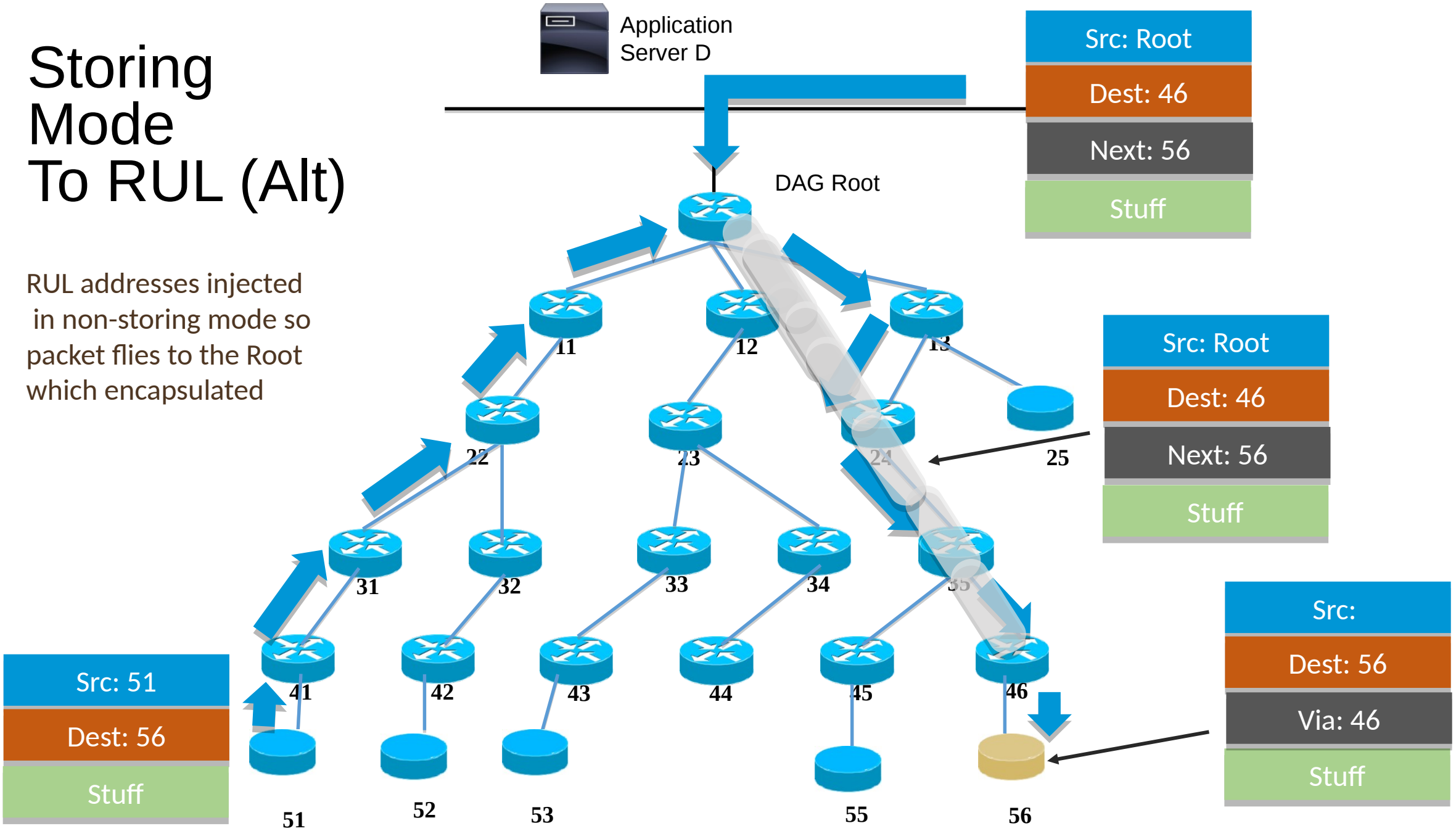
Src: Root
Dest: 46
RPI
Src:
Dest: 56
Stuff

Src: 51
Dest: 56
Stuff

Src:
Dest: 56
Stuff

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