



Regional Area Network (RAN) Simulator

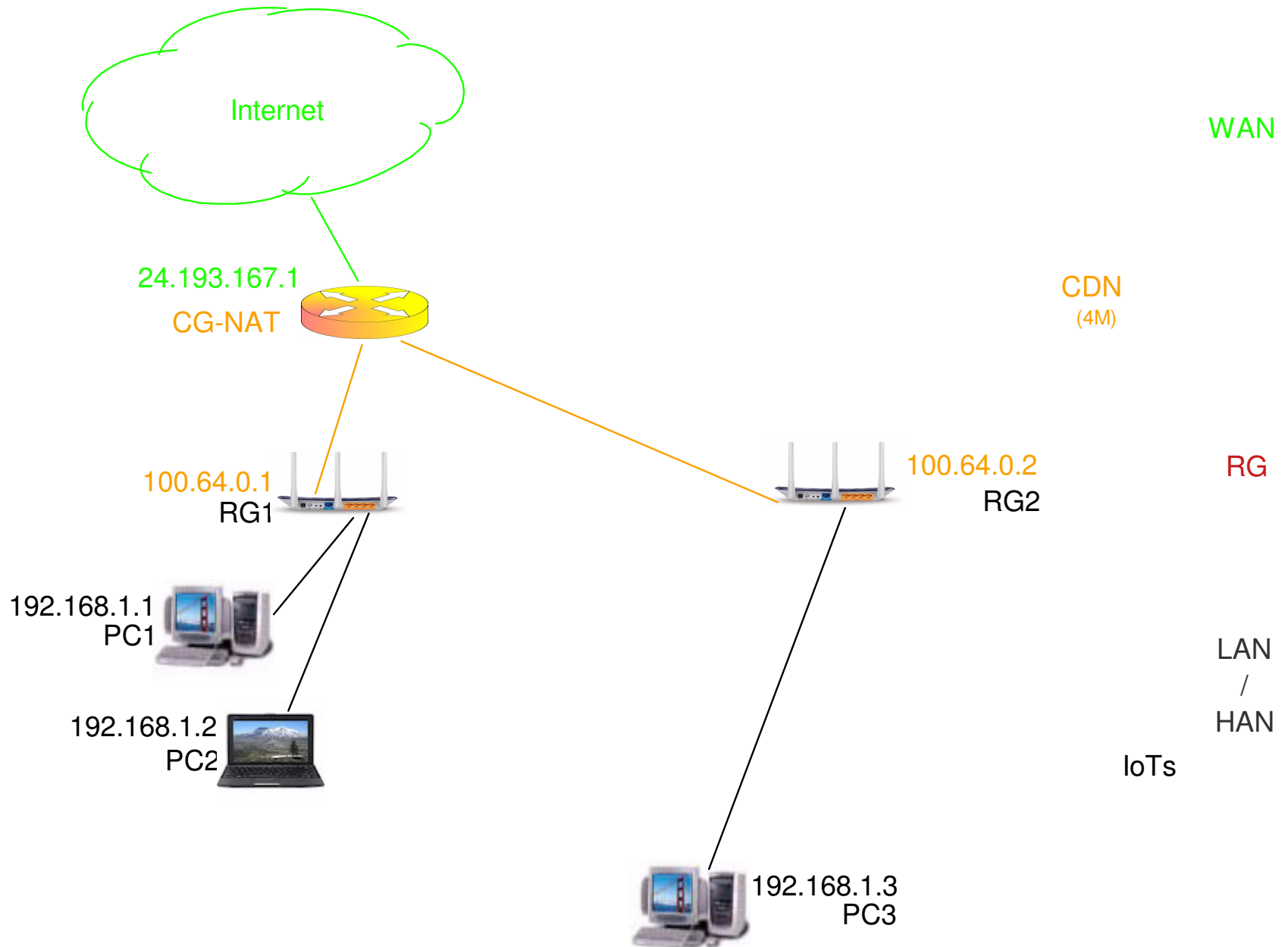
Presentation to

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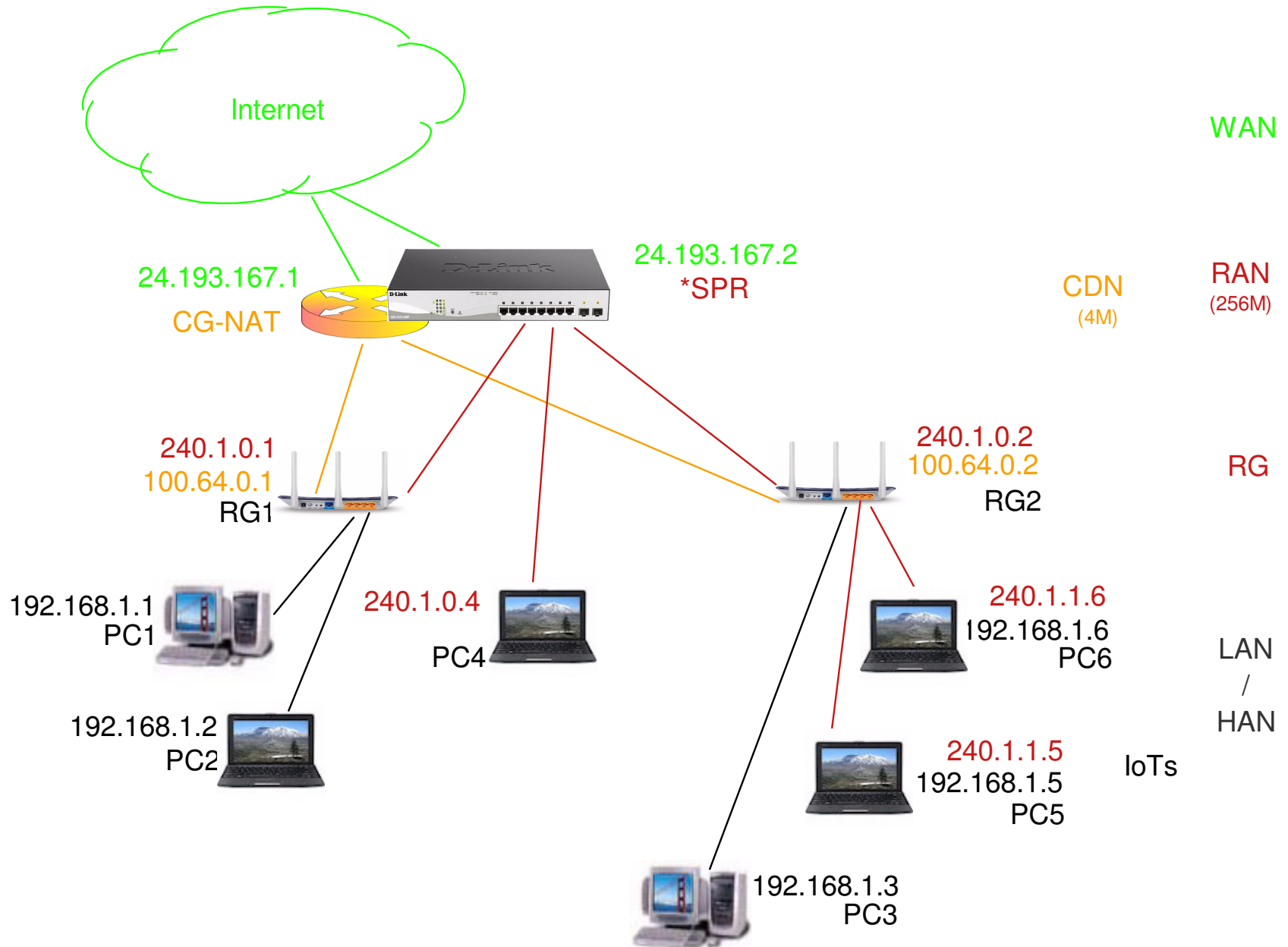


CDN Only





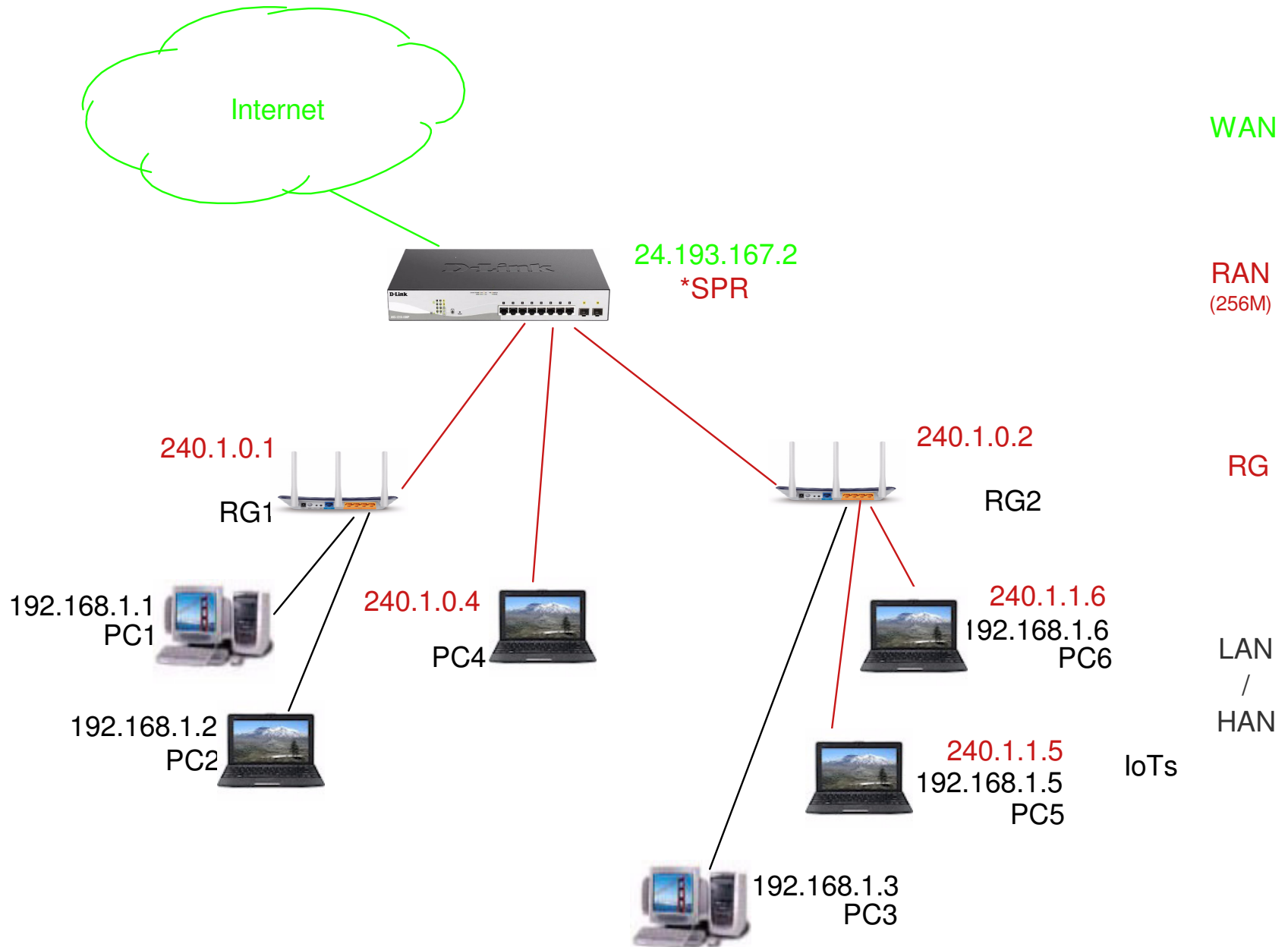
RAN Overlay on CDN



*** SPR (Semi-Public Router) -
US Patent No. 11,159,425**



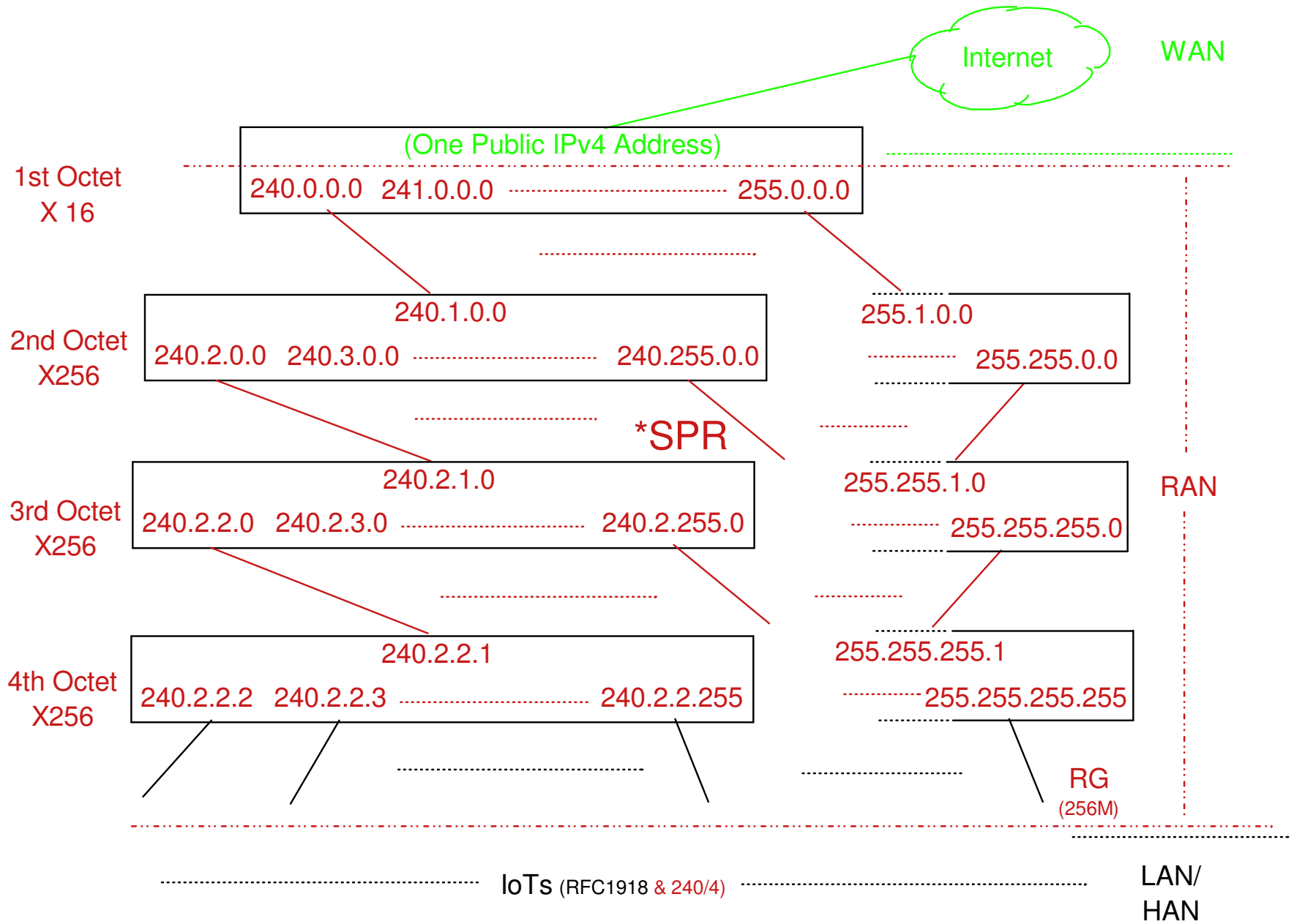
RAN Only



*** SPR (Semi-Public Router) -
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SPR Address Tree



* SPR (Semi-Public Router) - US Patent No. 11,159,425



Terminology & Components

CDN: Content Delivery Network

Part of the existing fabric between the Internet Core and RGs

CG-NAT: Carrier Grade - Network Address Translation

Router for CDN using 100.64/10 netblock

PC: Personal computer

1. HP Pavilion DT with Win10
2. Dell Inspiron NB with Win11
3. Dell Inspiron DT with Xubuntu 18.04.1
4. HP Mini1000 NB with Xubuntu 18.04.1
5. Asus EeePC NB with Xubuntu 18.04.1
6. HP Pavilion NB with Xubuntu 18.04.1

RAN: Regional Area Network

Proposed network overlay on CDN

RG: Routing/Residential Gateway

Gateway for serving LAN/HAN on private premises

1. TP-Link Archer C20 V4 with OpenWrt 18.06.1
2. TP-Link Archer C20 V4 with OpenWrt 19.07.3

SPR: Semi-Public Router

Router for RAN using 240/4 netblock

D-Link DGS-1210-10 with OpenWrt 23.05.4