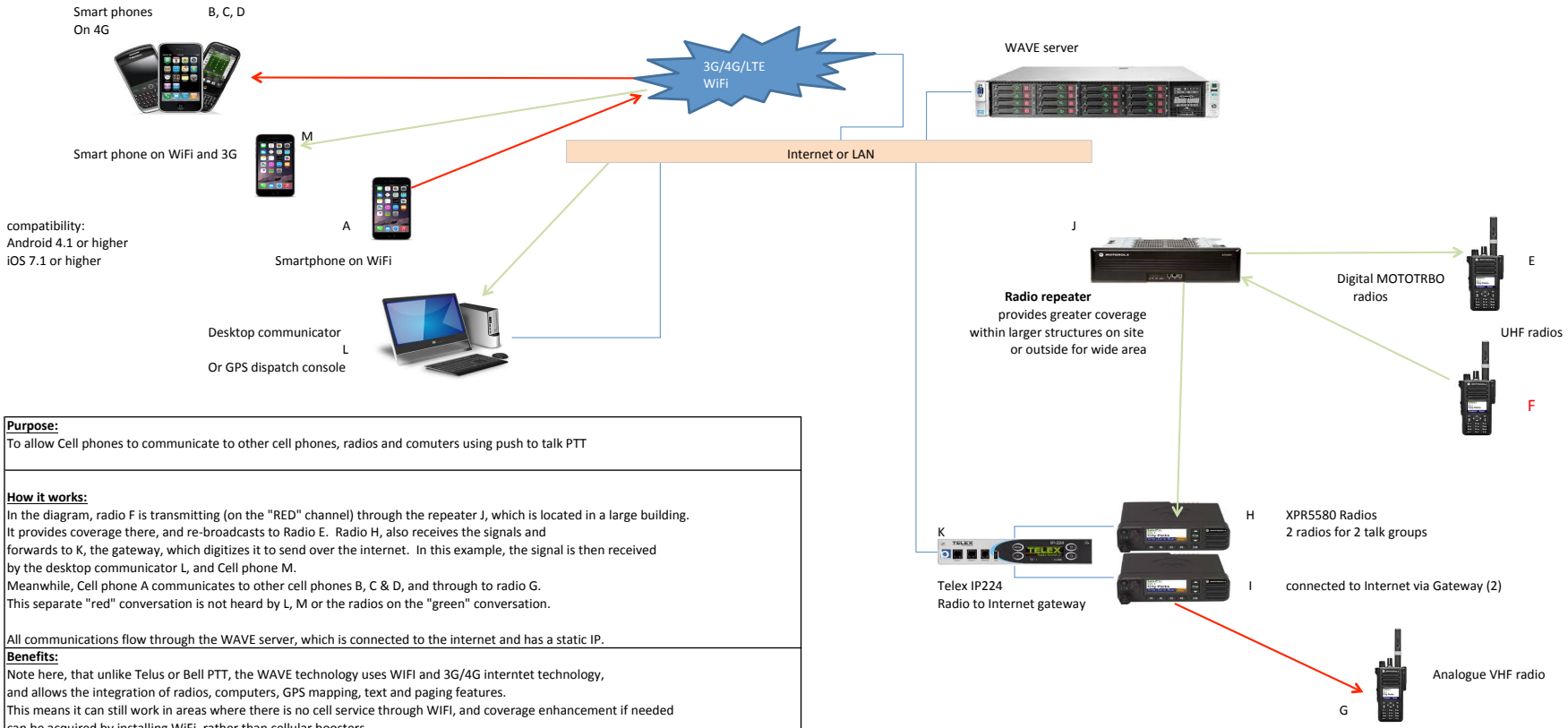
Motorola WAVE 5000 system

Typical system architecture diagram



Purpose:
To allow Cell phones to communicate to other cell phones, radios and comuters using push to talk PTT

How it works:
In the diagram, radio F is transmitting (on the "RED" channel) through the repeater J, which is located in a large building.
It provides coverage there, and re-broadcasts to Radio E. Radio H, also receives the signals and
forwards to K, the gateway, which digitizes it to send over the internet. In this example, the signal is then received
by the desktop communicator L, and Cell phone M.
Meanwhile, Cell phone A communicates to other cell phones B, C & D, and through to radio G.
This separate "red" conversation is not heard by L, M or the radios on the "green" conversation.

All communications flow through the WAVE server, which is connected to the internet and has a static IP.

Benefits:
Note here, that unlike Telus or Bell PTT, the WAVE technology uses WIFI and 3G/4G interntet technology,
and allows the integration of radios, computers, GPS mapping, text and paging features.
This means it can still work in areas where there is no cell service through WIFI, and coverage enhancement if needed
can be acquired by installing WiFi, rather than cellular boosters.

This technology can be wholly owned, or you can load devices onto our WAVE server.

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