GMC proposed Logical security architecture.
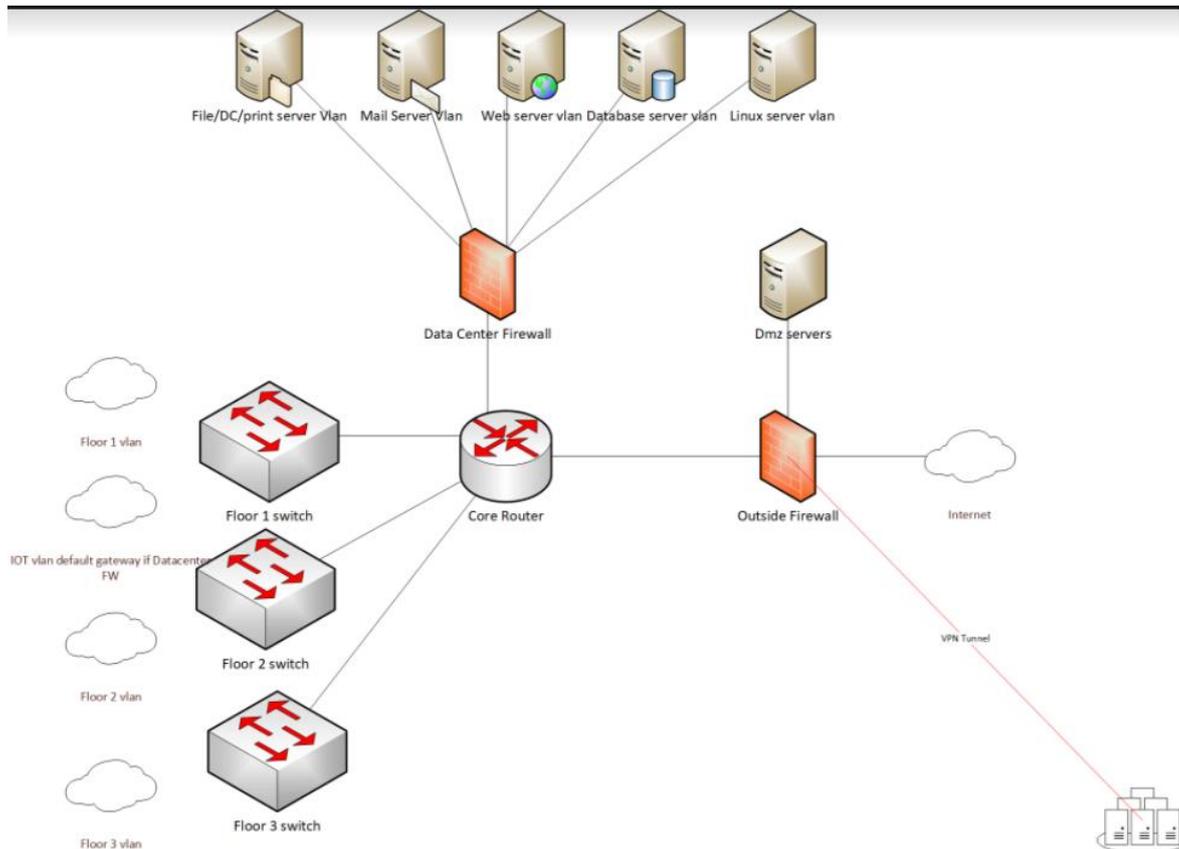
1.2 Data Centre setup

1.2.1 Protecting data centre server with firewall

Requirement : All servers in GMC must be protected with NGFW with IPS and Anti-virus protection.

Can this be achieved with current setup : No, the current firewall does not support IPS and Anti-virus.

Risk of using current devices/setup : Current firewall does not support virtual context, anyone/devices from LAN can access data centre servers, furthermore current firewall does not support NGFW features for advance protection.

Cisco ASA 5520 is EOL, this put company in risk due to support and software vulnerability.

1.2.2 Data centre vlan

Requirement: Create the vlan for

: printer server, domain controller and file servers

: web application servers
: Database servers
: Linux servers

Can this be achieved with current setup

: No, there is no data centre firewall.

Risk of using current devices/setup

: Current firewall does not support virtual context, anyone/devices from LAN can access data centre servers, furthermore current firewall does not support NGFW features for advance protection. Cisco ASA 5520 is EOL, this put company in risk due to support and software vulnerability.

1.3 User Vlan
Requirement

: Create the user vlan per each floor with its own subnet to reduce broadcast domain.

Can this be achieved with current setup

: Yes.

 Risk of using current devices/setup

: Current HP switch is EOL, this put company in risk due to support and software vulnerability.

1.4 IoT
Requirement

: Create separate IoT vlan devices (printers, display devices, etc) with new subnet that terminate on the firewall with IPS and anti-virus.

Can this be achieved with current setup

: No, the current firewall does not have NGFW features.

Risk of using current devices/setup

: Current HP switch is EOL, this put company in risk due to support and software vulnerability.

1.5 Phones
Requirements

: Create separate phones vlan with new subnet

Can this be achieved with current setup

: Yes.

Risk of using current devices/setup

: Current HP switch is EOL, this put company in risk due to support and software vulnerability.