

**CHIN VANNAK**

**MULTI GROUP VPN WITH VERTICAL  
MANAGEMENT**




# HISTORY OF INTERNET

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The history of the Internet has its origin in the efforts of wide area networking that originated in several computer science laboratories in the United States, United Kingdom, and France in 1960s.




**Until now, there is a lack of security over the Internet.**



MoEYS



MoAFF



MoWRM

**Province A**



MoEYS




MoAFF




MoWRM


**Province B**



MoEYS



MoAFF



MoWRM

**Province C**



**PROBLEMS**

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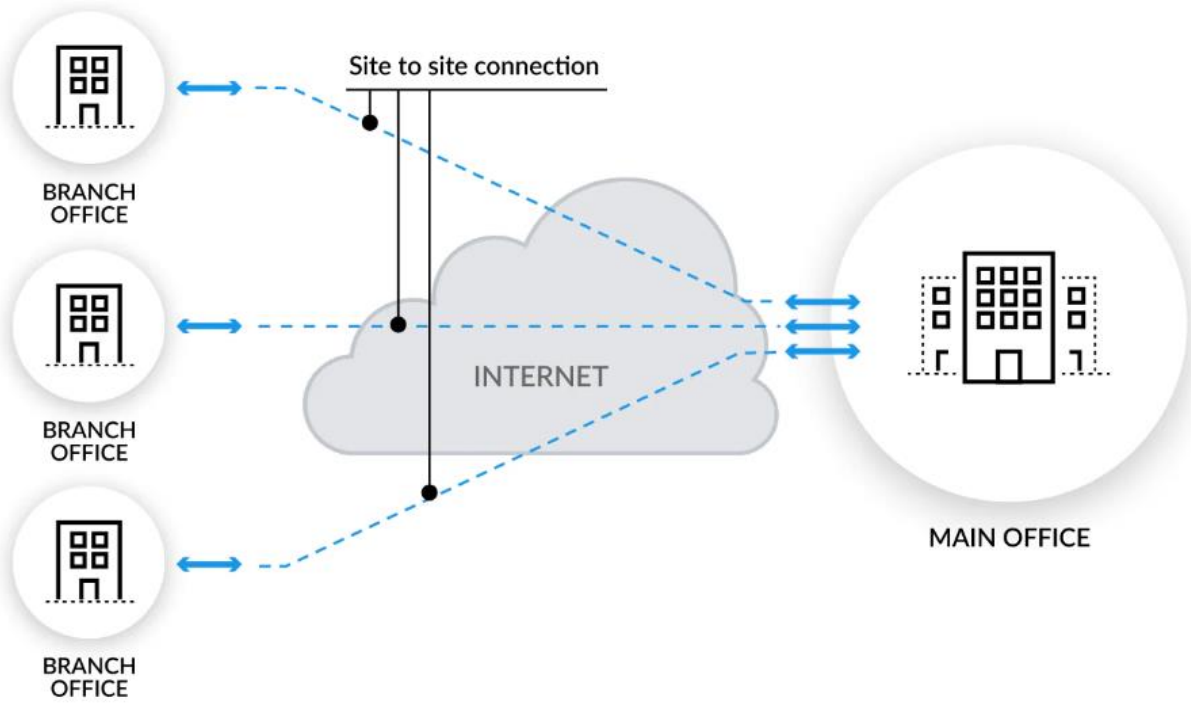


**Files are shared insecurely over  
the Internet.**



## LITURATURE REVIEW

### Site to Site VPN



# OBJECTIVES



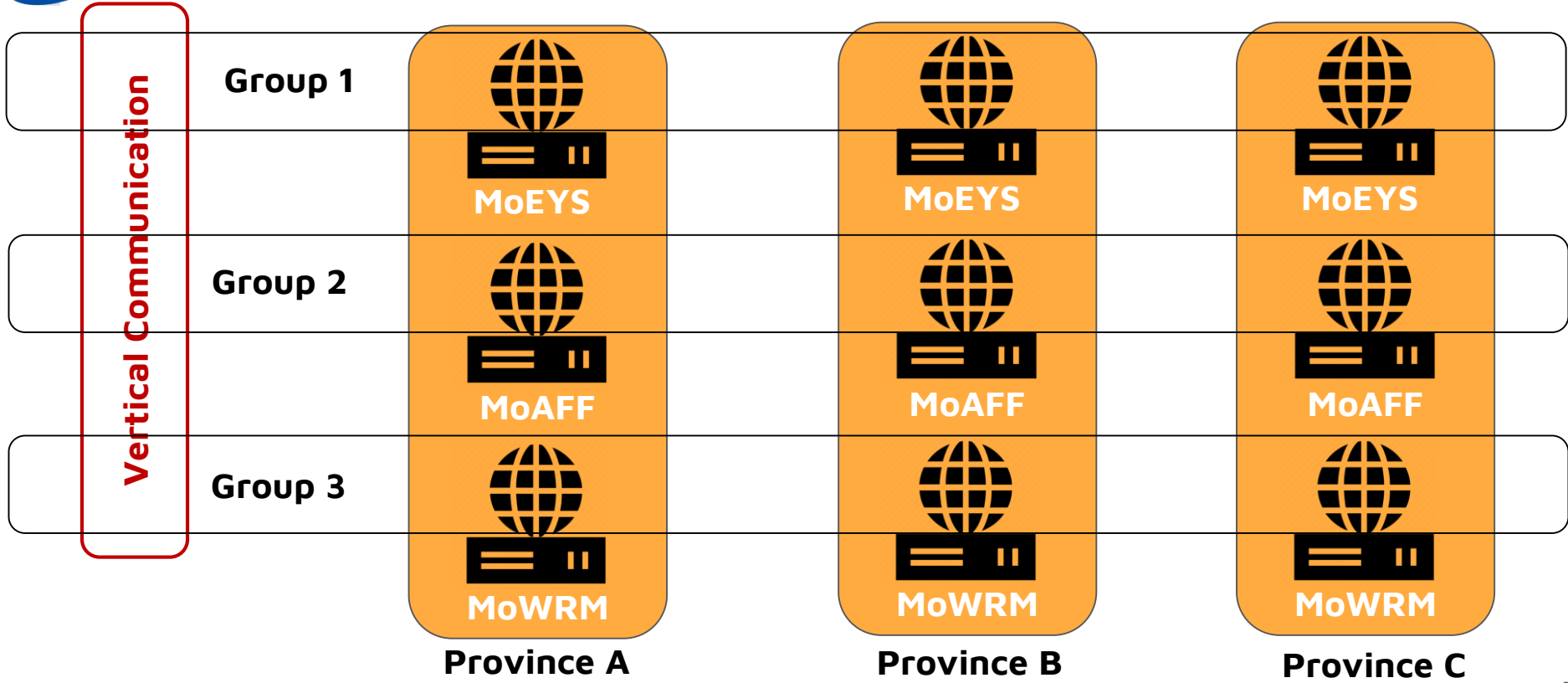
**Secure  
Communication**



**Group  
Communication**

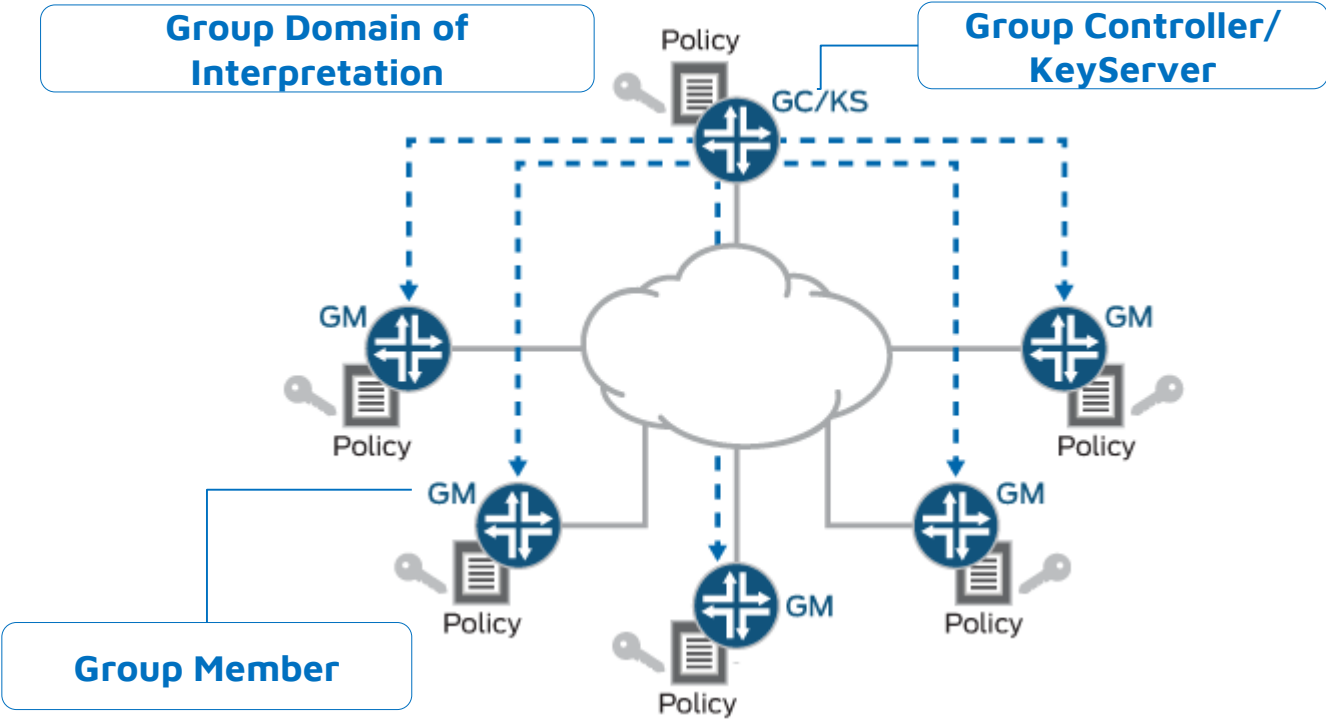


**Vertical  
Communication**



**PROPOSED METHOD**

## Group VPN using GDOI







**IMPACT**



**01**

## **SECURE CONNECTION**

All traffic is secured with GDOI and ESP.

**02**

## **SCALABILITY**

Single SA and Keypair used for entire any-to-any group.

**03**

## **HIGH AVAILABILITY**

We can access files from multiple locations.

**Prevent Data Losses due to any hacks or attacks.**

**Make it easier to control data transmission**





## CONCLUSION



**Preventing is better than fixing.**