

## **1. Background:**

Cloud Security Services is one of the forthcoming services of NaaS (Network as a Service) services via which Virtual Network Services/ Functions (VNS) will be available to the users of telecommunication service provider.

## **2. Objectives of Research Proposal:**

The objectives of this proposal as below,

- a) This proposal is to provide following cloud-based offerings of new Virtualized Network Services (VNS) to NaaS customers (NaaS – Network as a Service) – Wireline L3/L3 VPN Service, Wireline Managed Internet Service, Network Firewalling, Load Balancing, Gateway Antivirus, etc. In telecommunication terminology this offering is termed as UTM product - Unified Threat Management product.
- b) UTM technologies are used to create the infrastructure to provide new value added services (VAS) via cloud to managed services like Internet and/ or VPN which customer has ordered.
- c) These new infrastructures let telecommunication service provider instantaneously deliver networking resources securely to thousands of user groups rather delivering the services requested by customers with current build time of about 90 days as per traditional/ legacy service model.
- d) With the help of cloud-based datacenters, it is possible for applications to request additional networking resources on an as-needed basis and also peak demands can be provisioned “just in time”, which makes it possible to share networking resources across applications.