Tishknet Iraq maintains LTE network uptime of 99% and service uptime of 99.999% with Alepo's HSS solution.

PROJECT BACKGROUND

Tishknet is one of the most modern telecommunication companies in Kurdistan, Iraq. Having worked with Alepo on two previous projects (WiMAX rollout and WiMAX to LTE evolution), the operator turned to Alepo to deploy a proven Home Subscriber Server (HSS) solution in its LTE network.

Before selecting Alepo for an HSS solution, Tishknet had the option to select a different HSS solution offered by the LTE network infrastructure provider. However, to avoid vendor lock-in and reduce the total cost of ownership (TCO), Tishknet decided to go with Alepo's next-gen HSS solution.

OPERATOR REQUIREMENTS

Taking into considerations its consistently growing LTE subscriber base, Tishknet wanted Alepo to deliver a high-performing solution with endless scalability to take care of its current and future needs. Other requirements included-

- A proven HSS solution to handle the increasing load of signaling traffic in a highly available environment

- Avoid exorbitant license fees imposed by the existing HSS vendor for each installation
- Realize vendor neutrality with the selection of a best-of-breeds HSS
- Reduce TCO by deploying Alepo HSS solution alongside with the already-installed Alepo BSS platform

ALEPO SOLUTION

Alepo created a network environment of high availability clusters and configured two Alepo HSS in the redundant mode to provide an uninterrupted service in Tishknet's LTE network. The key Alepo solution components delivered were -
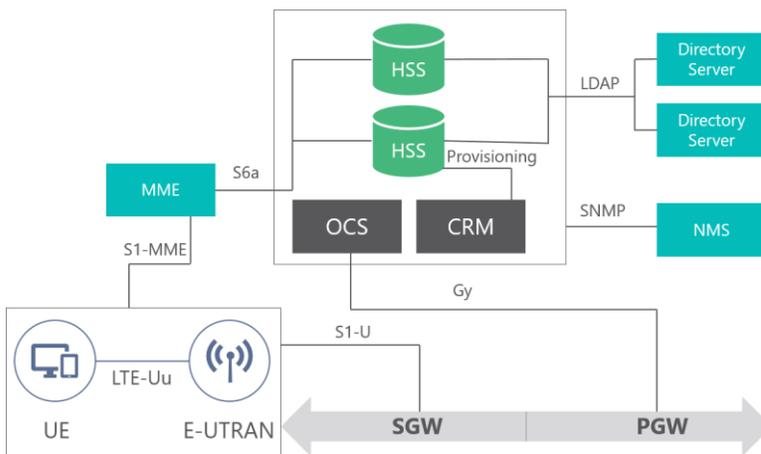
- Alepo HSS Server
- Integration with a single legacy MME over S6a interface to handle LTE subscriber authentication, authorization
- Integration with Alepo SE/CRM for SIM activation and barring
- Integration with Central Network Management System (SNMP) using SNMP V2 platform
- Alepo HSS to support inbuilt AuC support to handle subscriber authentication based on LTE AKA Authentication scheme

Alepo HSS High Availability Solution

SOLUTION FEATURES & HIGHLIGHTS

Alepo provided a scalable HSS solution that positioned Tishknet to expand its OSS network expansion for LTE. Other highlights of the project included –

- **No Vendor Lock-in |** With Alepo HSS, Tishknet was able to avoid vendor lock-in that had required the operator to bear high license fees for each minor system change.
- **Highly Available (HA) Solution |** Alepo HSS with active-active and active-passive redundancy efficiently handled a large signaling load, creating in a high-performance network environment.
- **Unified Subscriber Data Management |** Alepo HSS provided centralized database to store LTE subscriber profiles, EPS subscriptions, subscription quality of service (QOS).

- **GUI-based Configuration Interface |** Alepo HSS allow users to perform quick actions like view and manage subscriber profile and update and delete the subscriber profiles as a batch process using the same GUI.

PROJECT OUTCOME & RESULTS

The successful deployment of powerful and robust Alepo's HSS solution has helped Tishknet's LTE network to reach its full potential. Major business benefits include –

Reduced Total Cost of Ownership

Deployment of Alepo's HSS alongside the Alepo BSS platform already installed in the Tishknet's legacy LTE network has helped the operator to reduce the TCO by 25%.

Improved Network and Service Uptime

Since the launch of LTE, the system uptime has been maintained at 99% and the service uptime at 99.999%, setting a high mobile experience benchmark.

Improved Quality of Experience (QoE)

Two Alepo home subscriber servers with market-leading speed and reliability are deployed to handle the ever-increasing traffic on Tishknet's LTE network. Post-deployment, within one month the QoE improved by 25% due to the uninterrupted services offered to the subscribers.

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