

REDUCING COSTS WITH SS7 INTERCONNECT UPGRADE

an Aarenet and TelcoBridges Partnership

BACKGROUND

- The client is one of the largest Telecom and Internet Service Provider in Southeast Asia (“Telco”).
- Telco offers a range of internet, voice, television, and smart home services for residential and business customers, locally in Vietnam.
- Telco has hundreds of thousands of subscribers in its network and requires interconnection with every other carrier in Vietnam and Southeast Asia.

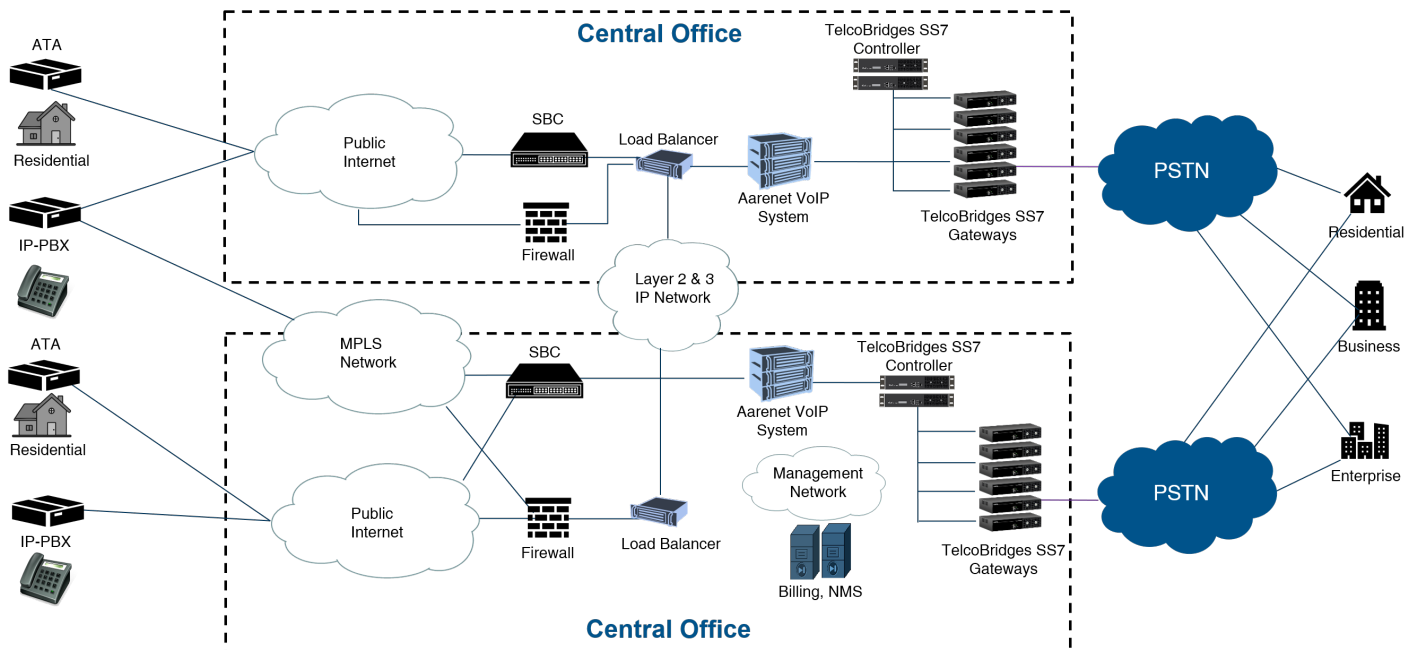
CHALLENGES

- Telco required to upgrade their TDM network equipment.
- They required to replace the legacy softswitch and SS7 gateways, because the existing systems struggled with performance and support issues.
- The legacy gateway vendor’s technical support was inadequate, making it hard to resolve critical issues.
- In 2022 Aarenet partnered with TelcoBridges to design and deploy a new replacement solution with minimal disruption of services for the customers.

SOLUTION

- To update the network infrastructure, an SS7 to VoIP Media Gateway was required to integrate the new IP-based solution with the legacy TDM inter carrier connection. The solution included a fully redundant softswitch system and SS7 gateways (TMG7800), with High Availability (HA), and 24/7 support.
- A flexible, powerful routing engine was implemented to handle complex routing scenarios, including backup call routing between sites.
- The solution offered a stable, secure, reliable, and fully monitored system.
- The solution complied with local regulations, including Lawful Intercept, Number Portability, and SPAM & Fraud call detection.
- TelcoBridges and Aarenet offered local technical support, facilitating deployment, and updating the Telco with the latest product releases.

SS7 INTERCONNECT NETWORK DIAGRAM



RESULTS

- The installation of TMG gateways and an Aarenet softswitch resulted in commercial and operational cost savings for the Telco.
- The TMG gateways' Mean Time Between Failures (MTBF): 150,000 hours.
- The TMG Gateway solution scaled from 4 to 10 units per site to meet growing service demand for the Telco.
- The Telco expanded their SS7 interconnect network to another major city for geographical redundancy setup, now supporting 200-300K customers.