ETB Colombia to **boost network performance with Alepo AAA** solution

ETB Colombia modernized its fixed broadband AAA services with an Alepo solution, boosting capacity and features to handle retail internet services.

Operator Requirements

With a depth of experience and knowledge in fixed broadband transformation, Alepo intimately understood the challenges faced by ETB. Alepo took a multidimensional approach to identify all factors responsible for less-than-optimal network performance and to eradicate them completely to deliver a long-term value. In order to realize greater operational efficiency and performance capability, ETB required the following:

- Replacement of legacy AAA with high-performance Alepo AAA plus PCRF Lite for real-time policy control

- Transformation of the core network infrastructure to deliver rapid and unwavering response during high network traffic times

- Robust session management to resolve issues that had been hampering the customer experience

- An approach to mitigate high and sudden performance loads caused by frequent power outages in specific regions that triggered a flux in authentication requests

- Best-of-breeds flexibility, scalability, performance and data integrity

Project Background

La Empresa de Telecomunicaciones de Bogota (ETB) is one of Colombia's top internet service providers, offering a bouquet of fixed broadband services in Bogota and main Colombian cities. In 2015, ETB began a major three-year process to modernize its services and network technologies. To bring this strategic plan to life, ETB chose Alepo to offer a high-performance AAA infrastructure that would increase the ADSL network reliability and services innovation.

ETB sought to accelerate the performance and capacity of its legacy fixed broadband network. To do so, ETB aimed to resolve technical issues that caused performance lag and operational inconsistencies. In order to strengthen the network and to deliver better services faster to subscribers, ETB looked for a robust, carrier-grade AAA solution that could meet the company's immediate and the future needs. The other factors that influenced the need for an upgrade - to increase revenue opportunities, enhance customer experience (CX) and maintain brand leadership in the market.

Alepo's Solution

Alepo worked closely with ETB to deliver a high-performance AAA solution that would transform the network, the CX, and operations. Alepo delivered the following solution.

- Deployment of Alepo AAA, PCRF Lite and reporting server on a pre-integrated, single platform

- Integration with legacy network elements, including Juniper, Huawei and Cisco

- Integration with VAS platforms such as Content Guard Control and AntiSpamOut platforms

- Professional services: implementation, systems integration, data migration, training and support

Client Testimonial

"As a top technology provider and strategic partner, Alepo understands ETB's vision for fixed and mobile broadband success and continues to deliver the solutions and services needed to work towards that vision."

- Daniel Federico Vásquez, CTO at ETB

Solution Highlights

With Alepo's performance-driven AAA solution, ETB gained an industry-leading core network infrastructure and unprecedented performance. The solutions provided endless scalability and greater capacity to support ever-increasing subscriber base of ETB with no further network investment.

Highlights of the solution included:

Industry-leading AAA performance with built-in noise reduction, self-healing capabilities, centralized session and accounting databases, and convergent authentication and authorization.

Rapid service recovery from outages caused by power failures, both at the operator and end user.

Sophisticated customer experience that led to fewer customer issues, complaints, and calls to customer care.

Project Outcomes

Significant Savings in OPEX

With improved reliability, performance and unique platform features, ETB has gained flexibility to customize authentication services including fixed (xDSL+FTTH) and mobile (LTE), thus reducing dependency on deep and expensive software upgrades to control specific subscriber attributes.
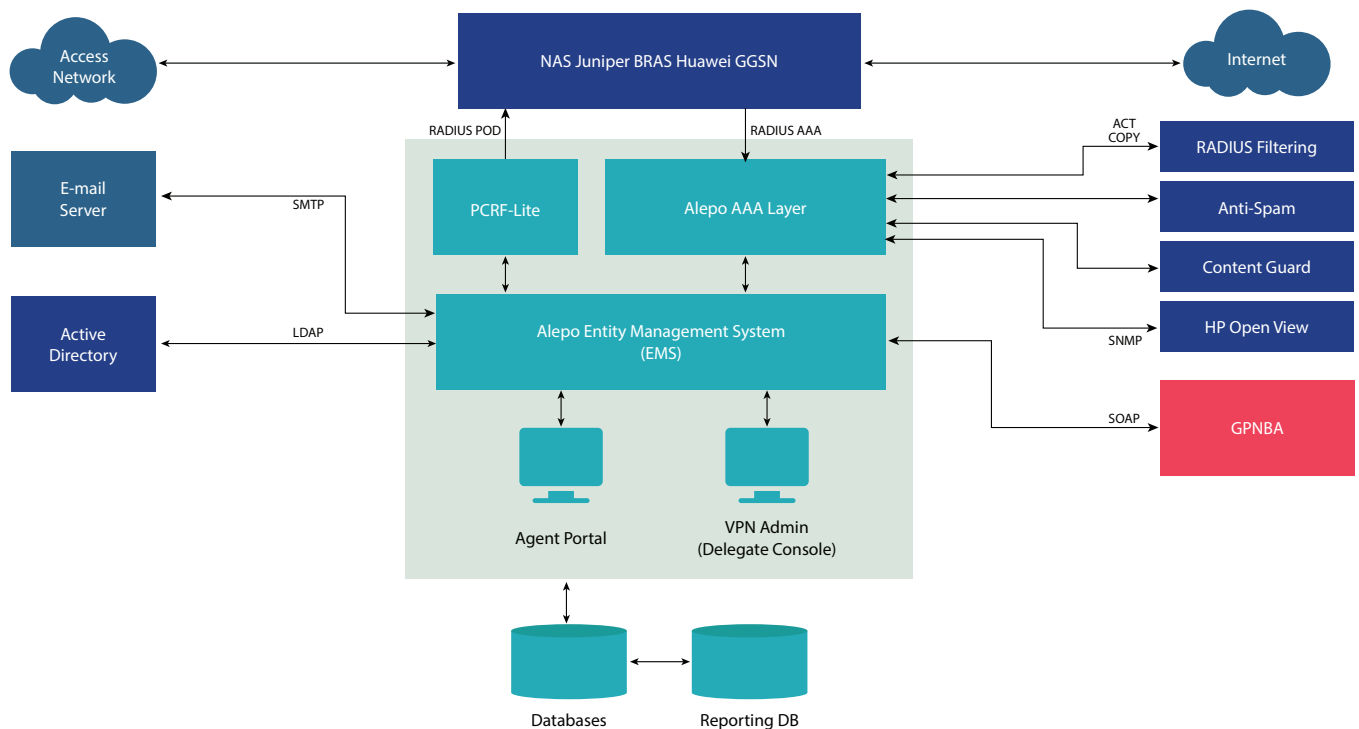
Accelerated Network Performance

As a result of this transformation, ETB vastly increased its network performance and capacity, since Alepo solution provided an increased capacity the former platform was unable to supply.

Solution Architecture