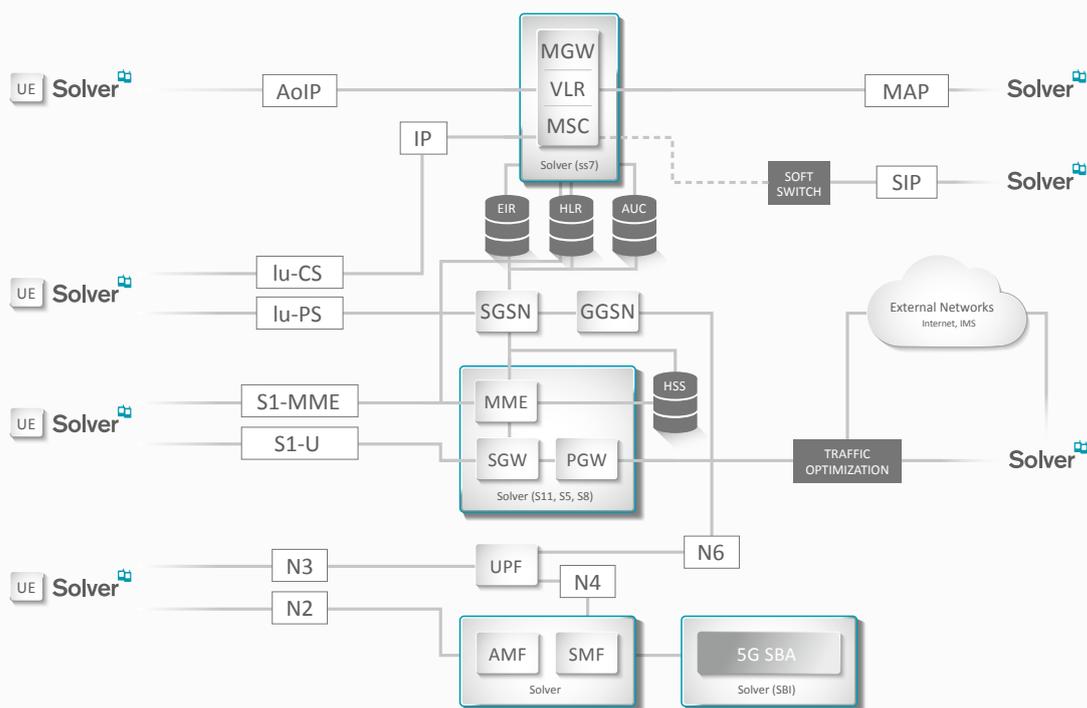# Solver

emblasoft

A fully virtualised, scalable and powerful solution

Mobile Core Network Validation for Telco Cloud and 5G Transition

Solver emulates an extensive range of network elements, spanning control and data plane traffic for voice, messaging and data application services, simulating millions of user devices. It's a single test and validation platform that covers GSM, UMTS, LTE, VoLTE, Wi-Fi and 5G, and more.

- Single platform for multiple network technologies
- 5G migration options
- Control and User Plane Separation
- Integrated with your Telco Cloud

- Easy to use GUI and automation options
- Mobility support (inter and intra RAT)
- Objective MOS scoring
- Accurate and realistic simulation

Customer Benefits

Telco cloud CUPS and 5G migration

Solver enables subscriber simulation from a range of client interfaces in 2G – 5G mobile networks. It offers different migration paths to 5G, such as non-standalone option 3x or option 2 stand-alone.

The system architecture is based on Control and User Plane Separation (CUPS), via the N4 interface and Sxa and Sxb. Solver can be deployed as VNF(s), allowing it to be fully integrated into the customer's telco cloud.

Realistic and accuracy subscriber simulation

Solver offers advanced mechanisms to fully control traffic profiles and to ensure accurate simulation of subscribers and network nodes. These range from packet control at the IP level to end-user behaviour and device characteristics on full stack application protocols.

This flexibility ensures the most realistic replication of different nodes and use cases.

Solver

Voice and messaging

Solver provides comprehensive voice and messaging service validation capabilities, for both load testing and objective voice quality assessment, covering GSM, UMTS, VoLTE and VoWiFi. It emulates the RAN network and associated subscribers in combination with hand-over scenarios, such as SRVCC. As a result, sophisticated traffic profiles can be simulated. Legacy messaging services (SMS), as well as RCS are supported.

Ease of use and automation

Solver's intuitive GUI allows for rapid and easy creation of test cases. KPI objectives and alarm thresholds can be defined, enabling automatic execution and result analysis for bulk regression tests.

This also allows Solver to be an integral element of a continuous DevOps framework.

At Emblasoft, we are passionate about building software products that enable our customers to innovate and drive the evolution of the communications industry. We are a global provider of Service Enablement, Performance Management and Test and Verification systems for VoLTE, IMS and 5G infrastructure. With Emblasoft´s solutions, CSPs and equipment manufacturers can obtain and deliver new products and services that are at the forefront of technology.

We're a new name in the market, but we already have more than 35 years of experience, built under the Polystar brand. We changed our name to Emblasoft following our divestiture of Polystar OSIX to Elisa in 2019. Emblasoft´s headquarters is located in Stockholm, Sweden. For more information, please visit **www.emblasoft.com**