

Seliro Ensemble Software

Home Gateway Application (HGA)

HGA is a unique feature-rich toolbox and the perfect instrument to simplify broadband deployment and optimize operations. It allows operators and service providers to, easily and quickly, create and launch new services as well as optimize operational cost.

HGA highlights

- **Triple play services**
 - Full Service routing
 - SIP-ALG
- **Voice over IP**
 - IMS and legacy SIP compliant
 - Full CAT-iq 2.0 feature set
 - Certified CAT-iq 2.0 software
- **Secure access**
 - To the home
 - To the office
 - Wi-Fi hotspot
- **Operator diagnostics**
 - Operator log
 - Wi-Fi diagnostics of the home
 - Voice quality and statistics
 - Access speed measurements
- **Wi-Fi hotspot**
 - 3G/LTE off load
 - Public Hotspot
- **3G – LTE WAN**
 - For redundancy
 - As permanent connection
- **Smart home**
 - SAMBA
 - DLNA
 - Secure access to home
 - ULE for future services

Seliro Home Gateway Application Software is built with the operator in focus. The features are fully managed by TR-069 and implementation is done to support the operator business model.

A Home Gateway has to interact in today's connected home ecosystem and must interwork with multiple devices and enable various services. HGA let you to do exactly that!

HGA allows you to use any 3G – LTE access device. For storage, HGA is interworking with DLNA permitting the use of any DLNA device. All complemented with the advanced and flexible HGA VoIP implementation. HGA is the ultimate toolbox for operators to start and grow with.

The software offers extensive operator tools to monitor not only the operator network from a gateway perspective, but also the subscriber home environment.

The built in operator log and Wi-Fi monitoring solution are valuable examples of such tools. For the voice services, the software offers extensive logging with quality measures of each call.



Seliro's HGA Software for Home Gateways

The Seliro HGA is a modular software supporting a large range of features and functions for home gateways.

The same feature set, look and feel and level of interoperability is available independent of access technology or underlying hardware platform. All services are fully manageable and possible to supervise from the operator ACS.

Network services	Voice Services	LTE WAN access
<ul style="list-style-type: none"> Service separation <ul style="list-style-type: none"> Using 802.1p/q, DSCP For Internet, VoIP, Management, IPTV, LAN port (bridge) based services. Routed any-port-any-service <ul style="list-style-type: none"> Internet IPTV (IGMP and RTSP proxy) VoIP (SIP-ALG) QoS <ul style="list-style-type: none"> Port based rate limiting, Service based (re)tagging and prioritization IP address assignment using <ul style="list-style-type: none"> Static IP, DHCP and PPPoE DHCP Server fully configurable Firewall and NAT services <ul style="list-style-type: none"> Stateful Packet Inspection IPv4 NAT, STUN, UPnP Port forwarding, DMZ, bridge filters NTP, DNS proxy Dynamic DNS IPv6 Dual stack <ul style="list-style-type: none"> Internet and Management service SLAAC DHCPv6 client/server 	<ul style="list-style-type: none"> Legacy SIP and IMS support Country specific adaptations <ul style="list-style-type: none"> Tones Impedances Services Dial plans Mid call services Supplementary service <ul style="list-style-type: none"> Locally or in network Using service codes VoIP specific services Local GUI with <ul style="list-style-type: none"> Phone book Call lists Service handling Multiple (12) VoIP accounts <ul style="list-style-type: none"> Free association to FXS and DECT HS. Built in PBX for local calls 4 simultaneous call sessions Wide band voice support Voice codec support * <ul style="list-style-type: none"> G.722, G.711, G.723.1, G.726, G.729, AMR-NB Fax support <ul style="list-style-type: none"> Using T.38 and G.711 	<ul style="list-style-type: none"> Permanent and fail over support Manageable via TR-069, local GUI PIN, PUK, APN configuration Access technology choice White list device configuration Status, Signal strength Location Information
		Wi-Fi hotspot/homespot
		<ul style="list-style-type: none"> Customized open Wi-Fi access solutions FON certified solution http redirect White lists EAP radius authentication Portal based authentication
		Storage Services
		<ul style="list-style-type: none"> Multiple disks and partitions Operator manageable via TR-140 DLNA, SMB and HTTP based access User and group access rights White list
Secure access	New generation DECT/CAT-iq/ULE	Management and diagnostics
<ul style="list-style-type: none"> HTTPS SSL VPN termination <ul style="list-style-type: none"> L2TP-LNS, L2TP-LAC L2TP, L2TP/IPSec OpenVPN client and server IPSec connection support IPSec Server, IPSec Client support <ul style="list-style-type: none"> Certificate support Certificate support <ul style="list-style-type: none"> Import/Export of certificates via local GUI Self signed certificate generation 	<ul style="list-style-type: none"> GAP and CAT-iq handset support Full CAT-iq 2.0 functionality <ul style="list-style-type: none"> Software passed certification Support for SUOTA Phone book HD voice with up to four calls Up to six connected handsets Support for ULE for smart home applications 	<ul style="list-style-type: none"> Auto provisioning scenarios Local management <ul style="list-style-type: none"> Via Web GUI, via phone Remote management via TR-069 <ul style="list-style-type: none"> TR-098, TR-104, TR-106, TR-140, TR-143, TR-069 Annex F,G, TR-157 Software update, configuration, status and statistics via remote management and locally. Operator log support following TR-157 <ul style="list-style-type: none"> Network event logging Service logging Active/passive notification to ACS Management over IPv4 and IPv6

* A special license agreement is needed for using the AMR-NB codec



The HGA software is available in different HGA packages containing features designed to match each operators need and service offering. License models are available for additional value added services.