

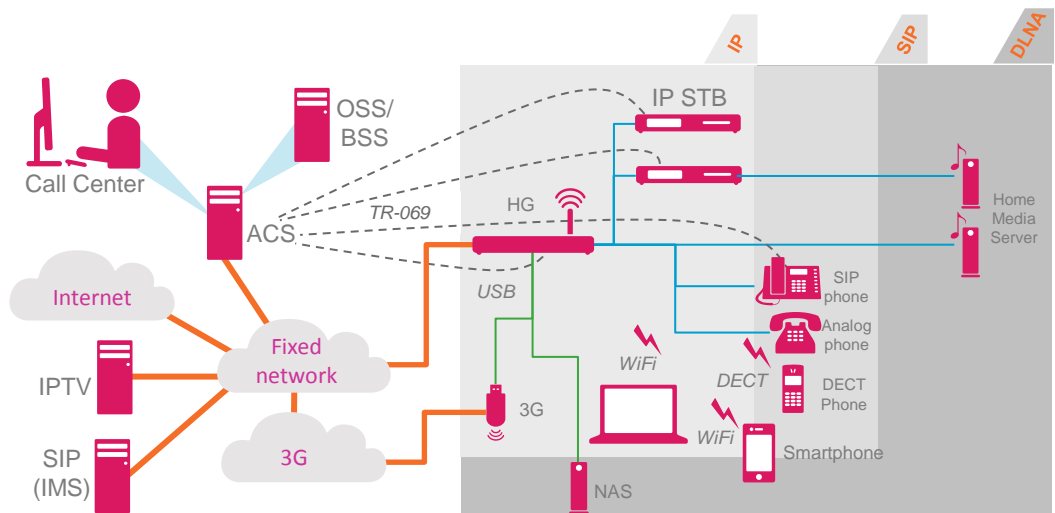
Tilgin Software

Home Gateway Application Software

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.



Tilgin 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 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.



Tilgin's HGA Software for Home Gateways

The Tilgin HGA is a modular software supporting a large range of features and functions on the Tilgin HG product families.

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.



Voice Services	New generation DECT (with MSA211)	3G WAN access
<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, ISDN-MSN 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.729, AMR-NB ISDN support <ul style="list-style-type: none"> Phone function keys Data services Fax support <ul style="list-style-type: none"> Using T.38 and G.711 	<ul style="list-style-type: none"> GAP and CAT-iq handset support Full CAT-iq 2.0 functionality <ul style="list-style-type: none"> Prepared for certification HD voice with up to four calls Up to six connected handsets 	<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
	Network services	
	<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 	<ul style="list-style-type: none"> Multiple disks and partitions Operator manageable via TR-140 SMB and HTTP based access User and group access rights White list
		Management
		<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 Software update, configuration, status and statistics via remote management and locally.

* 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. In addition, a license model is available for additional value added services, such as 3G WAN and managed storage.

The matrix presents the software feature packages currently offered by Tilgin and how the software maps to hardware.		Tilgin software			
		HGA540	HGA550	HGA560	HGA570
Software feature	Broadband services	√	√	√	√
	Voice services		√		√
	Fully routed (any-port-any-service)			√	√
	Storage	Storage support is a license option to all packages			
	3G WAN	3G WAN support is a license option to all packages			
	New generation DECT	MSA211 support in software is included in all Voice packages			
	Hardware	Tilgin Gateways	In general, all software options are available on all products*		
Third party gateway		The Tilgin HGA software is portable, feature details are defined within the scope of a project.			

* An exception is the HG1311 and HG1522 where the following options: Storage, 3G WAN and New generation DECT are not available. HG320 support HGA 550 only.

