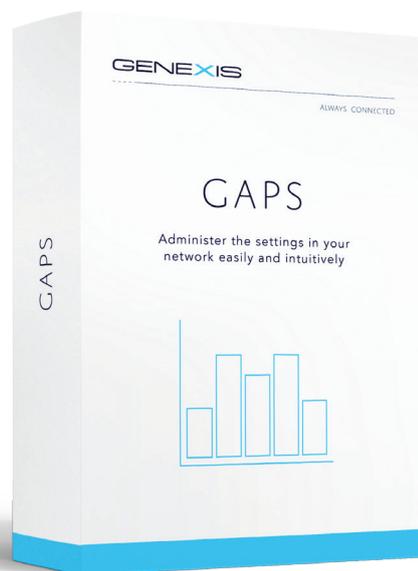


## GAPS

### Genesis Automatic Provisioning System



Configuring and managing routers and networks is vital to delivering a seamless, high-quality service to your customers. The Genesis Automatic Provisioning System (GAPS) enables you to do exactly that; making it easy to perform firmware upgrades, monitor the network or configure specific service

features. GAPS helps you remotely manage CPE settings such as VLANs, phone/SIP settings and firmware upgrades. Instead of managing the CPE as a stand-alone box, we offer a central GAPS server that enhances management functionality by placing part of the CPE intelligence in a central location.

#### Features

- » Configure, manage and monitor Genesis CPEs
- » Extensive remote information for troubleshooting
- » Provisioning even when CPE is switched off
- » Automatic firmware distribution
- » Ideal for networks with multiple services and multiple service operators
- » Interoperable with 3rd party network management platforms
- » GAPS is delivered as a virtual machine and runs on any server with the free VMware Player software
- » Manage NTs (FiberTwist) and RGs (DRG / Platinum)

#### GAPS controls access for separate roles

GAPS is designed to support both the service provider and the network operator. Service providers can be assigned their own login, allowing them to directly manage their own clients. This saves network operator costs, as configuring service-oriented data or fielding support calls is no longer needed.

#### Test GAPS with our demo system

With the GAPS demo system you can evaluate and test GAPS with your Genesis products. It is delivered as a virtual machine on DVD, running under VMware Player. This demo system offers full functionality for up to 10 devices.

# Product features & specifications

## GAPS

### Functionality

- » Configure CPE / RG settings such as:
  - VLAN/QoS settings
  - Rate-limits
  - Telephony settings
  - Routing settings
  - CATV on/off
- » Automatic firmware distribution
- » Integrated TFTP server for CPE firmware upgrades (external TFTP server can also be used)
- » Provision CPEs with or without recording MAC address in the system
- » Manage CPEs even when powered off
- » Extensive remote information for troubleshooting
  - Port status and phone
  - Statistics port
  - Last connection to server
  - Uptime
  - HW & SW versions
- » Logging information available
- » Export back-ups to an off site location
- » Binding of network interfaces
- » Works with FiberTwist and Platinum

### Interfaces

- » Web user interface:
  - Runs on all current browsers (e.g. IE, Edge, Chrome, FireFox, Safari, Opera)
  - Powerful input verification and error checking with colour-based feedback (green/yellow/red)
- » SOAP interface for integrating provisioning and troubleshooting into existing infrastructure:
  - Powerful interface for machine-machine interaction
  - Retains most advantages of the web-based GUI
- » SNMP manageable, including traps for monitoring server health
- » Direct database connection:
  - Suitable for generating highly customised reports and inventory checking
  - Can also be used for mass-provisioning

### Operational Features

- » Fully automated CPE provisioning ensures minimum work for the operator
- » Extensive user rights management allows unified access by all service providers to manage their own clients (and not those of others)
- » Secure setup: one network interface connects to the CPE access network, another to the management network
- » Group data management allows the easy division of clients into groups (for example regular clients and friendly users)
- » Scalable: Scale easily and in steps from <250 CPEs to 150,000 (see table below)
- » Daily backups provide maximum data safety
- » Supplied as a virtual machine image, to be used on any server with VMware Player

### System Requirements

- » 2.5GHz CPU
- » 6GB of RAM
- » 200 GB of free harddisk space

## GAPS product models

Article Number	Maximum CPEs Supported
GAPS-DEMO	10 (DHCP and SIP server included)
GAPS-VM250	250
GAPS-VM2K	2000
GAPS-VM10K	10,000
GAPS-VM30K	30,000
GAPS-VM90K	90,000
GAPS-VM150K	150,000