



Central Hub: 103 Duiker Drive, Rochdale, Nyanga, Zimbabwe

Infrastructure Hosts: `dns.peacro.africa` | `market.peacro.africa`

# SAFENET™ PRODUCT DATASHEET

## & Licensing Matrix

### 1. ECOSYSTEM OVERVIEW: WHAT IS SAFENET™?

**SafeNet™** is a centralized, cloud-managed cybersecurity, network optimization, and parental control infrastructure engineered specifically for the unique economic, data, and power landscape of Zimbabwe.

Powered by a remote, high-performance Virtual Private Server (VPS) executing advanced AdGuard Home DNS filtering algorithms, SafeNet™ intercepts and processes digital traffic requests before they ever hit a local device. By utilizing encrypted DNS protocols (**DNS-over-HTTPS** and **DNS-over-TLS**), SafeNet™ serves three distinct pillars:

- **Absolute Content Filtering:** Eliminates digital addiction and exposure by blocking pornography, explicit material, online gambling, and malicious ransomware at the network root.
- **Bandwidth & Data Optimization:** Saves homes and schools up to **30%** of expensive data allocations (Starlink, Liquid Fiber, or TelOne) by completely stripping away heavy background ads, tracker scripts, telemetry, and video auto-play hooks.
- **Advanced Access Scheduling:** Provides network administrators and parents with the granular capability to cap device speeds, schedule internet blackouts, and block social media distraction zones (TikTok, WhatsApp, gaming servers) during critical study, class, or sleep windows.

### 2. HARDWARE DATASHEETS

#### SafeNet™ Enterprise Gateway Hub

<b>SKU:</b>	SFN-ENT-ER605V2
<b>Target Audience:</b>	Boarding Schools, Mission Schools, Clinics, and Hospitality Eco-Lodges.
<b>Core Hardware:</b>	TP-Link ER605 V2 Gigabit VPN Gateway Router (Pre-configured).

FEATURE	TECHNICAL SPECIFICATION
<b>Physical Interfaces</b>	1× Fixed Gigabit WAN Port, 1× Fixed Gigabit LAN Port, 3× Changeable Gigabit WAN/LAN Ports, 1× USB 2.0 Port (for 4G Failover dongles).
<b>Security Lockdown</b>	Embedded firewall rule restricting outgoing Port 53 (UDP/TCP). Prevents advanced users from manually bypassing local DNS configurations.
<b>Management Layer</b>	Fully adopted into the central <b>Omada Software Defined Networking (SDN)</b> VPS Controller for Zero-Touch remote provisioning.

### Enterprise Feature Set:

- **Multi-WAN Intelligent Load Balancing:** Failover seamlessly between a primary link (e.g., Starlink) and secondary/backup links (e.g., TelOne ADSL, Liquid Fiber, or an Econet/NetOne 4G LTE USB dongle).
- **Bandwidth Rate-Limiting:** Cap student device speeds (e.g., 2 Mbps) to stop data hogging while keeping dedicated high-speed pipelines (e.g., 20 Mbps) open for administration and accounting teams.
- **Granular Firewall Calendars:** Automatically shut off access to social media and entertainment domains during mandatory study blocks and execute site-wide Wi-Fi blackouts at bedtime.

### SafeNet™ Home Shield Secure Router

<b>SKU:</b>	SFN-HOM-WR840N
<b>Target Audience:</b>	Residential Homes, SOHO Small Offices, and Day-Scholar Households.
<b>Core Hardware:</b>	TP-Link TL-WR840N N300 Wireless Router (Pre-configured).

FEATURE	TECHNICAL SPECIFICATION
<b>Physical Interfaces</b>	4× 10/100Mbps LAN Ports, 1× 10/100Mbps WAN Port.
<b>Wireless Standards</b>	2.4 GHz IEEE 802.11b/g/n delivering a stable 300 Mbps bandwidth plane.
<b>Antenna Array</b>	2× Fixed Omnidirectional Antennas engineered for structural wall penetration in local brick and mortar structures.

### Residential Feature Set:

- **Plug-and-Play Protection:** Requires zero technical configuration by the parent. Drops in directly behind existing modems or Starlink routers (configured in bypass mode).
- **Unified Family Filtering:** Extends automated protection to every device that authenticates onto the household Wi-Fi, including Smart TVs, family mobile phones, tablets, and gaming consoles.

- **Data Overhead Defenses:** Strips structural video ads out of web browsers and mobile apps to conserve valuable prepaid monthly family data packages.

### 3. DIGITAL LICENSE & TOKEN MATRIX

SafeNet™ operates on a decentralized, hybrid token renewal structure designed to accommodate local payment processing methods (**InnBucks, EcoCash, USD Cash**) without relying on automated credit card deductions.

#### 1. SafeNet™ Mobile Go Endpoint License

**SKU:** SFN-LIC-MOBILE  
**Delivery Profile:** Virtual Digital Product (Delivered instantly via `market.peacro.africa`)  
**Deployment Scope:** Per-Device Base Registration (IMEI for Mobile, Serial Number for Laptops)

**Functional Definition:** Locks a secure, encrypted configuration profile directly into the native operating system network settings of an individual device (Android Private DNS, iOS `.mobileconfig` payload, Windows IPv4 manual tables). This ensures the device continues to query `dns.peacro.africa` even when disconnected from SafeNet™ hardware, providing 24/7 protection over open public Wi-Fi networks and Econet/NetOne mobile cellular data bundles.

#### 2. SafeNet™ SOHO Network Access Token

**SKU:** SFN-LIC-SOHO-HOME  
**Delivery Profile:** Virtual Token Code  
**Deployment Scope:** Per-Household (Validates a single `SFN-HOM-WR840N` gateway profile)

**Functional Definition:** Maintains the permission layer on your central VPS engine for an entire household router deployment. It allows an unlimited number of devices to share the local access point while keeping the global blocklists updated against new pornography, malicious phishing, and malware domains appearing on the web.

**Configurable Durations:** Available in 1-Month Basic, 3-Month Quarter Saver, and 12-Month Annual intervals inside the Bagisto store profile.

#### 3. SafeNet™ Enterprise Campus Support SLA

**SKU:** SFN-LIC-ENTERPRISE  
**Delivery Profile:** B2B Institutional Service Level Agreement  
**Deployment Scope:** Per-Campus / Per-Institution Infrastructure footprint

**Functional Definition:** Unlocks enterprise-grade remote management tools inside the central Omada Cloud controller. This subscription covers ongoing adjustments to firewall scheduling calendars as requested by school heads, technical troubleshooting, and the automatic creation of monthly, anonymized PDF Network Health Reports. These graphical reports map total query attempts, prevented cyber threats, blocked explicit site requests, and explicitly track overall data volume saved in Gigabytes.

**Configurable Durations:** Termly Academic Package (Aligned strictly to the 3-Term Zimbabwe School Calendar), Bi-Annual Package, and Annual Enterprise SLA.

## 4. NETWORK ENFORCEMENT & SYSTEM LIFECYCLE

Because the core network intelligence lives centrally on your public VPS, administrative enforcement requires zero physical intervention:

### SUBSCRIPTION RENEWAL

Upon purchasing a service token via EcoCash or InnBucks on your Bagisto platform, the customer's identifier remains unblocked on the server dashboard.

### SUSPENSION ENGINE

If a subscription lapses, the network technician toggles the client profile to **Disabled** within the VPS AdGuard Home dashboard. All incoming DNS queries from that specific router or device profile drop instantly, safely pausing internet access.

### TAMPER-PROOF DESIGN

If a user attempts to factory-reset the underlying hardware ( ER605 V2 or TL-WR840N ) to erase your DNS settings, the entire custom configuration matrix (VLANs, multi-WAN load-balancing rules, and device speed limits) is wiped out. The local network immediately breaks, requiring a paid re-provisioning service visit to restore basic operations.