

MyAkses 3G™

The My Akses 3G and EVIC works hand in hand to provide multiple location deployment at a fraction of the cost.

The Ethernet Virtual Interface Concentrator (EVIC) is a device that aggregates connections from multiple My Akses 3G. MyAkses 3G is deployed at the network's edge and it allows you to setup a Tru'Connect network environment over a Layer 3 routed environment. The EVIC works in tandem with the My Akses 3g to provide this functionality.

MyAkses 3G is the client component of this architecture and it establishes a TCP connection with the Ethernet Virtual Interface Concentrator (EVIC). Within this TCP connection, Ethernet packets on the downstream interface of the My Akses 3G are captured and transmitted through this connection to the EVIC. The EVIC retrieves and reconstructs the Ethernet packets from the TCP connection and sends them out through its downstream interface.

The reverse also occurs, i.e., Ethernet packets are captured from the downstream interface of the EVIC and depending on the VLAN the packets come from, they are sent to the corresponding MyAkses 3G. The MyAkses 3G retrieves and reconstructs the Ethernet packets and sends them out through its downstream interface.

Feature List

+ Easy To Setup

Setting up a MyAkses 3G is as easy as setting the IP information such as IP Address and Gateway, the IP Address of the EVIC and the shared secret.

+ Ease of Deployment

The EVIC is able to maintain a mapping of My Akses 3G identifiers to IEEE 802.1Q VLAN ID. The EVIC will tag the outgoing Layer 2 frame with the appropriate VLAN ID based on the My Akses 3G that sent that frame. This allows ANTI Labs ezXcess gateway to identify where the frame is coming from and apply appropriate access control policies to that frame. Thus, you can apply location-specific policies in the SSG (such as network access policies) to the edge devices (such as computers and PDAs). Moreover, different policies can be applied to different locations concurrently. Because there is only single point of administration (at the SSG), deploying a new site is as easy as positioning a new My Akses 3G.

+ Load Sharing

Each My Akses 3G supports upto 2 EVIC settings - primary and secondary EVIC. The My Akses 3G will

automatically switch to the secondary My Akses 3G upon detection that there is connectivity issue with the primary.

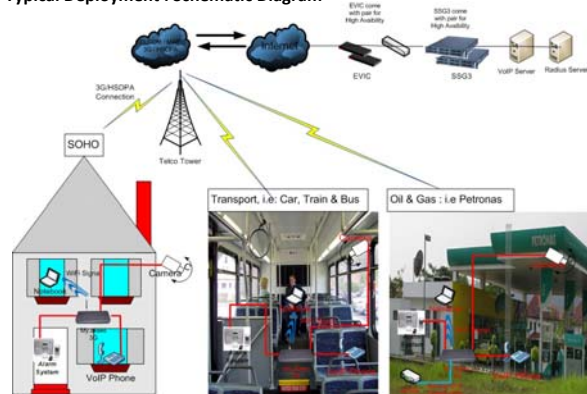
+ Broadcast Storm Control

EVIC has a built-in protection mechanism to control broadcast storm so as to minimize the impact in the network.

Modules included

Description	MyAkses 3G
No. of Ports	4
Firmware Recovery	YES
No. of VLANs	3
Shared Secret Tunnel	YES
VoIP Port	1
WiFi 11b/g	YES

Typical Deployment : Schematic Diagram



Front View



Back View

Product Specification of my.akses 3G wireless

The section below highlights the product specification of the my.akses 3G wireless.

Main Functionality:

- Tunnel IEEE 802.3/802.3u traffic between the LAN and wireless ports of my.akses 3G and that of designated EVICs via 3G/HSPDA backhaul.
- VoIP Analogue phone support via SIP 2.0 protocol

Description	Specifications
Model	Ridaa-1000
Firmware Version	V2.00
Standards	IEEE 802.3 (10BaseT) IEEE 802.3u (100BaseTX) IEEE 802.11b (11, 5.5, 1 Mbit/s) IEEE 802.11g (54, 48, 36, 24, 18, 12, 9, 6 Mbit/s) HSDPA / UMTS: 3GPP R99, R5 GSM / GPRS / EDGE: 3GPP R99 SIP 2.0(RFC 3261)
Protocol	CSMA/CD CSMA/CA
Codec	G.711 (PCM a-law and u-law) G.723.1 (5.3K/6.3K) G.726, (32K) G.729A iLBC
Fax Support	Fax pass through (for PCMU and PCMA) T.38 FoIP (Fax over IP)
Silence Suppression	VAD (Voice Activity Detection) CNG (Comfort Noise Generation) Line Echo Cancellation (G.168) AGC (Automatic Gain Control)
Ports	WAN (vlan 1): one 10/100 RJ-45 Port LAN 1-2 (vlan 0-1): 2x 10/100 RJ-45 Port FXS: 1xRJ-11 Port WIFI (eth2): 1x internal antenna, 1x external antenna connector HSDPA: 1 x internal antenna SIM / USIM card: standard 6 PIN SIM card interface
Cabling Type	UTP Category 5 or Better
Network Protocols	LAN: any valid IEEE 802.3/IEEE 802.3u frames WAN: TCP/IP

Operating Frequency	HSDPA / UMTS 2100MHz GSM / GPRS / EDGE 900 / 1800 / 1900MHz
Physical Speed	10/100Mbps (Ethernet Half Duplex) 20/200 Mbps (Ethernet Full Duplex) 54Mbps (WIFI) 3.6Mbps (HSDPA) 384kbps (UMTS) 236.8kbps (EDGE)
Storage Type	Solid State Memory
RAM Size	32 Mbytes
Flash Memory Size	8 Mbytes
Configuration & Diagnostic	Web-based Menu
High-Availability	Fast detection of broken tunnel Auto-switch between Two EVICs when existing tunnel is down
Security	IEEE 802.3/IEEE 802.3u frame validation Shared secret for authentication between my.akses 3G and EVIC
Maximum Forwarding Rate	3.1k pps
Maximum Throughput	7.2 Mbps
Fail-over Timing	< 60 secs (no traffic) < 15 secs (with traffic)
Power Input	5V DC 2.5A
Weight	0.8Kg

MyAkses 3G™, a registered trade mark by **Ridaa Associates Sdn Bhd**, 9-3, Jln USJ 9/5Q, Subang Business Centre, 47620 Selangor, Malaysia.

Tel: +603 – 8023 1678
 Fax: +603 – 8023 2678
www.ridaa.com.my