ipUnplugged
secure office everywhere

BUSINESS-CRITICAL, mobile VPN

○ The solution is easy to deploy, administer, and use
○ Assure uninterrupted data and voice connectivity with flexible, IP standards-based mobile VPN
○ Protect data with industry-leading security policies, encryption and authentication
○ Control access to network resources with integrated firewall
○ Optimize worker productivity and reduce costly network usage
○ Increase smartphone, PDA and tablet support
○ Provide secure guest access

Companies are increasingly adopting flexible working environments in order to maximize workforce efficiency and lower operational costs. Supporting dispersed, workforces demands flexible mobile networking capabilities that deliver data and voice connectivity whenever and wherever needed while adhering to corporate security policies.

To meet the increasing demands of mobile workers, IT administrators must provide quick, reliable and secure access to critical voice and data applications - whether users are roaming between floors, working from a public access, driving to a different office location, or working from home.

ipUnplugged is the industry's only VPN solution built on open Mobile IP and IPsec standards, enabling secure connectivity and seamless roaming across any combination of IP networks. Corporate users and guests can move freely between secure and non-secure networks without losing their connection, whether they are using docked connections, Wi-Fi networks, third-party hotspots or cellular data networks from multiple carriers – without jeopardizing corporate security policies. ipUnplugged even transparently adapts to maintain VoIP connections while users are in-motion, for example while they are communicating on a train, roaming through an airport, or in a car.

Always On. Always Connected. Always Secure.

The ipUnplugged corporate Mobile VPN ensures that an organization's IT corporate security policies are enforced 24/7/365 — no matter how or where the user connects from or moves to. ipUnplugged controls the connectivity and security settings, and can even be configured to prevent end-users from bypassing the corporate network.

Always Best Connection - The ipUnplugged Mobile VPN solution ensures that a mobile worker is connected to the best network available at all times. Its built-in location awareness feature disables encryption when roaming on secure networks (the LAN), which not only gives the user easy-to-use secure access, but also further improves performance.

Easy Management - With ipUnplugged, IT Administrators can create multiple profiles to which Access Control Lists (ACLs) can be attributed, hence controlling user access to network resources. For example, should an organization want to limit access to multimedia, the IT Administrator can simply throttle the allowed bandwidth. And, IT Administrators can set-up temporary profiles to accommodate guest users without jeopardizing security protocols, ensuring flexible and simple user administration as well as compatibility with existing network management systems.
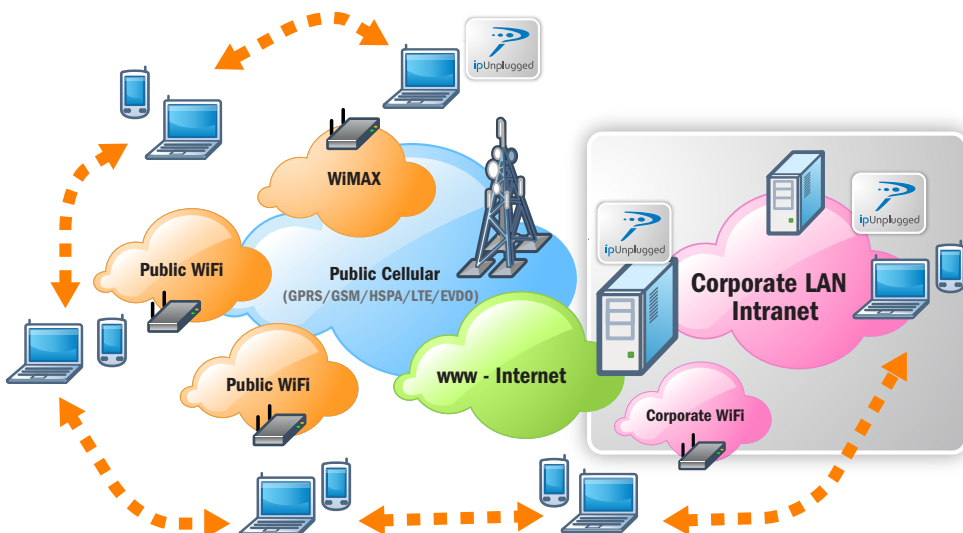
INCREASED PRODUCTIVITY TRANSLATES INTO COST SAVINGS

○ Mobile employees are productive everywhere.
○ They connect to the Internet, intranet and corporate applications just like they would in the office.
○ Workers stay productive longer, increasing efficiencies and ultimately improving the bottom line.
○ Increase ROI by controling access to expensive network assets.

Radio IP
Redefining Secure Mobility

ipUnplugged is a client-server Mobile VPN software solution that extends your LAN wirelessly and securely to continuously deliver uninterrupted VoIP, data, and/or video applications regardless of a user's location

Fast Roaming on Corporate & Public Mobile Networks

Easy to set up and easy to use, ipUnplugged allows your workforce to securely roam over both corporate and public networks, both wired and wireless. From one network to another, roaming is fast and seamless, with no impact on application performance, including VoIP. No intervention is ever required by the user … ipUnplugged is always on.

Secure Guest Access

ipUnplugged's comprehensive Network Access Control (NAC) allows Administrator's to control guest access to network resources. Companies can give visitors, temporary users or consultants access to the Internet without opening up a door to the corporate LAN and without installing any special client software. IAC can be optionally paired with payment system integration, enabling guest users to access the Internet as a paid service.

Standards-Based

ipUnplugged is the industry's only mobile VPN solution built on Mobile IP and IPsec open standards. These standards constantly monitor the location of a device and the network resources being used, and adjust the encryption level accordingly to ensure optimal performance. ipUnplugged ensures automatic, secure connectivity for users within their enterprise network or moving to a non-secure network.

Wireless Security

ipUnplugged secures mobile data communication and facilitates compliance with security policies such as HIPAA and CJIS. ipUnplugged secures the user, the data being transmitted as well as the IT Infrastructure with advanced authentication, FIPS 140-2 encryption, integrated firewall and the mandatory usage of corporate IT security policies.

User Security

ipUnplugged uses Windows Active Directory and communicates with a RADIUS server to validate passwords using two-factor authentication. Additional user-password authentication can be achieved using digital certificates, smart cards, biometric systems and software tokens.

Data Security

Data exchanged between mobile devices is very often confidential or even compliant classified. ipUnplugged guarantees that it stays that way using the industry's highest FIPS 140-2 encryption standard - AES, 256 bit.

IT Infrastructure Security

"Always on" ipUnplugged enforces corporate policies on corporate assets at all times. All wireless communications on corporate devices are routed through the VPN tunnel, and an integrated firewall provides even greater security protection of the IT Infrastructure.

Scalability

ipUnplugged supports an unlimited number of mobile clients. Additional clients and gateways can be easily added at any time. Based on configurable load balancing techniques, clients are spread amongst multiple gateways in order to distribute the system load efficiently.

Redundancy

To improve system availability and reliability, ipUnplugged synchronizes gateways. Should one gateway go down, the system remains operational.

Technical Specifications

ROAMING GATEWAY

IP	Routing, IP-IP and UDP tunneling.
SECURITY	FIPS 140-2 certified
MOBILITY	Mobile IP (RFC 3344) FA/HA, Reverse tunneling (RFC 3024), NAPT Traversal, AAA client, Transfer Agent.
FIREWALL	Full ingress/egress IP packet filtering, Filtering based on source, destination, port and protocol.
ADDRESS MANAGEMENT	DHCP, DHCP relay, NAT/ NAPT
VPN	IKE, s/b IPsec, transport and tunnel mode. DES, 3DES, CAST, Blowfish, AES, HMAC- MD5, HMACSHA, SSHv2.
AUTHENTICATION	RADIUS (RFC 2865), Web-login. NAI based auth.
AUTHORIZATION	Filtering based on IP address and user profile membership. Two stage filtering. Walled garden and White lists.
ACCOUNTING	Time and volume based. Support for pre-paid accounting.
OTHER FEATURES	NTP, SNMPv2, MIB-II, VLAN, Syslog, CLI, XAUTH.
CERTIFICATION	Dell, HP and IBM

ROAMING CLIENT

MOBILITY	Mobile IP (RFC 3344) with standalone FA and co-located care of address, DHCP client, Reverse tunneling (RFC 3024), NAPT traversal, IP-IP tunneling, priority list for preferred access networks.
SECURITY	IKE/XAUTH, s/b IPsec, ESP/AH, transport and tunnel mode. AES, DES, 3DES, HMAC-MD5, HMAC- SHA, Mobile IP Authentication. Quarantine Management and locked-down mode.
MANAGEABILITY	Automatically connects to the Roaming Server for download of client and configuration data.
PLATFORMS	Currently compatible with Android 4.0 and above, as well as Windows XP, Vista (32 and 64-bit versions), Windows 7 (32 and 64-bit versions) and Windows Mobile 6.1, 6.5

ROAMING SERVER

GUI	HTML based
SECURITY	SSL, SSH, Role based login.
AAA – SERVER	RADIUS server which allows for authentication, authorization and accounting.
MANAGED OBJECTS	Interface configurations, interfaces addresses, NAT, Hosts/ Subnets, filtering policies, IP routes, VPN relationships, s/b IPsec parameters, customized CLI configuration, users, service profiles, organizations, and service profile polices.
DATABASE	MySQL (customizable)
OTHER FEATURES	SMTP, Encryption and Key Generation, Web-login, GIS. Active Directory Integration.
OS COMPATIBILITY	Windows XP, Windows Server 2003/2008 R2. SuSE Linux 8.0 and higher. Linux RedHat 9.0 and higher.

About Radio IP

Radio IP Software leverages a broad portfolio of intellectual property to deliver innovative mobile data connectivity solutions that provide mobile and in-motion workforces with secure, real-time access to a wide range of applications and networks. Users of Radio IP's award-winning VPN solutions include small and large enterprises, as well as military, public safety, utilities, transportation and government agencies with mission-critical or business critical communication requirements.

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