

## DATASHEET

## ITRADIUS-VM

## INTRODUCTION

A clever multifunctional at an affordable Price!  
The ITRADIUS-VM Maximizes the diversity of your applications consolidating its characteristics with use of the multiple forms of captive portal, AAA server, advertising and other services synchronized and unified. All in one.

This consolidation allows minimal use of physical servers, increase the efficiency of the use of space in your datacenter, prevent one application from affecting others when enhancing improvements or chances, and deploy multiple operating systems with a single hardware platform.



## TECHNICAL SPECIFICATIONS

- ◆ ITRADIUS v. 1.0 Tempesta.
- ◆ AAA Server (FreeRADIUS V.3.0.10)
- ◆ Supports NAS (Network Access Server) Virtual and Physical.
- ◆ Ability to deploy a captive portal / Hotspot with multiple sites (CoovaChilli rolling release

V 1.3.1).

- ◆ Support for local storage on SQL Database.
- ◆ Asynchronous WEB administration.
- ◆ Support for deploying virtual network interfaces,
- ◆ Connectivity over VPN and SSH Tunnels.
- ◆ Certification authority and issue of certificates on demand.
- ◆ VLAN and IP v4 Support.

## FUNCTIONAL CHARACTERISTICS

- ◆ Support from various identity providers:
  - Local DB
  - ODBC
  - OPENID
  - LDAP
  - ADC (Microsoft Windows Server version 2003 a 2016)
- ◆ Dictionary system for NAS auto configuration (Network Access Server): HP, CISCO, ARUBA NETWORKS, amongst others.
- ◆ Real time system statistics and status.
- ◆ Automatic subscription updates.
- ◆ Custom system of groups and attributes that Define user properties.
- ◆ Ability to synchronize multiple instances with a master AAA server.
- ◆ Communication methods with the NAS (Network Access Server):
  - External Encryption or authentication Layer:
    - TLS
    - LEAP

- FAST
- TTLS
- EAP (PEAP)
- Internal Encryption:
  - MSCHAP V.2.0
  - MD5
  - GTC
- ◆ Variations of Captive Portals / Hotspot:
  - Standard Captive Portal: User name and Password (Local DB, ODBC, LDAP y ADC).
  - Direct Step Captive Portal.
  - Captive portal with Access Code (PIN).
  - Captive portal for Phantom users with delegated authority.
  - Captive portal with data Capture (forms).
  - Captive portal with External Sync, (Open ID: Google, Facebook, Twitter).
  - Captive portal with MAC Recognition. (RADA - RADIUS Authenticated Device Access).
  - Captive portal with app verification. (Requires a confirmation of installation of the specific application).
- ◆ Exclusion system of domain names and IP addresses through Garden in ny captive portal methods / Hotspot.
- ◆ Custom theme uploading (CSS) in any Captive portal / Hotspot method.

## VALUE ADDED

## CHARACTERISTICS

- ◆ Integration with External applications through public API, protocol HTTPS in JSON format.
- ◆ Ability to Support embedded and synchronized applications through Python Wheels.
- ◆ On demand advertising injection through **ADFLY**
- ◆ Custom advertising splash system.
- ◆ Custom Widget system for captive portal views.

## MITIGATED VULNERABILITIES

- ◆ Out of the way Attacks “Off-path”  
<https://arstechnica.com/security/2016/08/linux-bug-leaves-usa-today-other-top-sites-vulnerable-to-serious-hijacking-attacks/>
- ◆ Provides users without privileges unrestricted Access to the root.  
<https://arstechnica.com/security/2016/10/most-serious-linux-privilege-escalation-bug-ever-is-under-active-exploit/>
- ◆ An unprivileged user can copy, modify or destroy a hard drive.  
<https://threatpost.com/cryptsetup-vulnerability-grants-root-shell-access-on-some-linux-systems/121963/>
- ◆ Unauthorized messages can be sent.  
<http://thehackernews.com/2017/02/python-java-ftp-protocol-injection.html?m=1>
- ◆ Avoid Firewall defenses.

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## IDEAL PRODUCT USE:

◆ Hospitals	◆ Internet Kiosks
◆ Libraries	◆ Dorm Rooms
◆ Restaurants	◆ Churches
◆ Coffee shops	◆ Offices
◆ Condominiums	◆ Events
◆ Tourist Attractions	◆ Convention Centers
◆ Airports	◆ Hotels
◆ Stadiums	◆ Public Parks
◆ Universities	◆ Concerts
◆ College Campuses	◆ Movie Theatres
◆ Shopping Centers	◆ Night Clubs

◆ Bus Terminals	◆ Gyms
◆ Internet Service Providers (ISP's)	◆ Any other locations where Captive Portals may be utilized.

## USE ORDERING INFORMATION

Ordering Information	
ITRADIUS-VM	ITRADIUS VIRTUAL MACHINE