

Bring Your Own Device

UMA PERSPECTIVA DIFERENTE SOBRE BYOD

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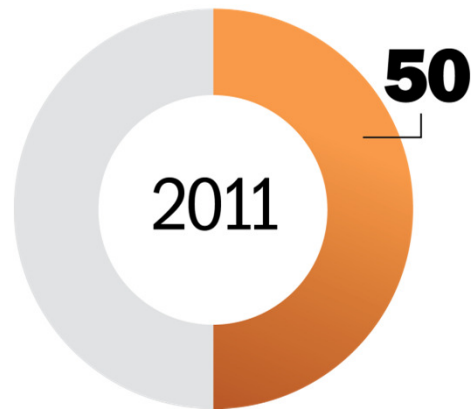
Short Introction...

- Roger Funari
 - Pre-Sales Systems Engineer - LATAM
 - Over 15 years' experience with Wireless, Networking and Telecommunications markets
 - Previously worked at D-Link and Parks S/A

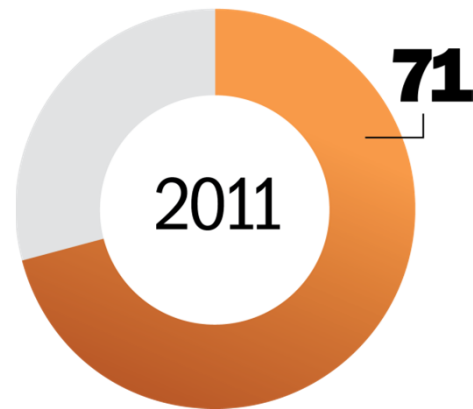


The Realities of BYOD

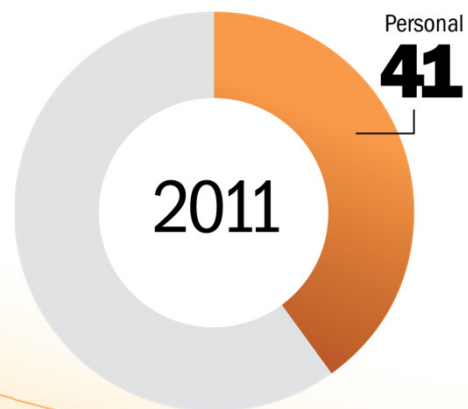
Companies that Don't Allow or Don't Manage Personal Devices



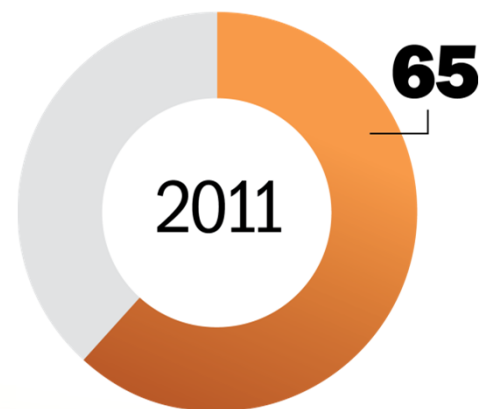
Companies that allow Personal Devices



Personal vs. Company Supplied Computing Devices



Tablets Sold with Wi-Fi Only





The Realities of Mobile Devices

26/03/2013 09h30 - Atualizado em 26/03/2013 09h45

Venda de tablets no Brasil cresce 171% em 2012, diz pesquisa

País vendeu 3,1 milhões de unidades no ano passado. Do total, 77% dos dispositivos têm o sistema Android.

Do G1, em São Paulo

2 comentários [Tweeter](#) 348 [Recomendar](#) 124



Tablets equipados com o sistema Android, do Google, foram os mais vendidos no Brasil (Foto: Regis Duvignau/Reuters)

O Brasil vendeu 3,1 milhões de tablets em 2012, um crescimento de 171% em comparação ao ano anterior, quando foram comercializadas 1,1 milhão de unidades, de acordo com um estudo divulgado pela consultoria IDC. Apenas no quarto trimestre do ano passado, o país vendeu 1,1 milhão de tablets.

Do total comercializado em 2012, 77% dos dispositivos têm o sistema operacional Android e quase 50% custaram menos de R\$ 500, segundo a IDC. "A entrada de equipamentos com esta faixa de preço foi o principal fator para o aumento significativo de vendas de tablets em 2012", disse Pedro

Hagge, analista de mercado da IDC.

Dos 3,1 milhões de tablets vendidos em 2012, 88% foram para usuários domésticos e 12% para o mercado corporativo. Na comparação com 2011, o segmento doméstico cresceu 159% e o corporativo 303%. "Desde que os tablets foram lançados, é um mercado que sempre

Link: <http://g1.globo.com/tecnologia/noticia/2013/03/venda-de-tablets-no-brasil-cresce-171-em-2012-diz-pesquisa.html>

Radar
Tecnológico

Sobre o Blog



Assine a Newsletter

BUSCA NO BLOG >>

Vendas de smartphones no Brasil crescem 78% em 2012

14 de março de 2013 15h53

Economia&Negócios



BRASILEIROS COMPRARAM 16 MILHÕES DE SMARTPHONES EM 2012. NA FOTO, UM IPHONE 4S E UM GALAXY S III (Foto: Reuters/Lee Jae Won)

As vendas de smartphones no Brasil em 2012 dispararam 78% sobre o ano anterior, para 16 milhões de unidades, segundo levantamento da consultoria IDC divulgado nesta quinta-feira, 14.

No mercado como um todo, foram vendidos 59,5 milhões de telefones celulares. Deste total, 43,5 milhões foram de aparelhos comuns, sem aplicativos de dados.

Link: <http://blogs.estadao.com.br/radar-tecnologico/2013/03/14/vendas-de-smartphones-no-brasil-crescem-78-em-2012/>



What Enterprises REALLY Want

- 1 Simple onboarding
- 2 Automated enforcement of user policies
- 3 Visibility of who and what is on the WLAN
- 4 Extension of wired security to WLAN
- 5 More capacity to deal with flood of devices
- 6 Leverage existing infrastructure



Don't Reinvent the Wheel



FIREWALLS



CONTENT
FILTERS



AAA
SERVERS



ACLs / VLANs

USE WHAT YOU HAVE

BYOD vs MDM | a broad definition

Device Configuration	<ul style="list-style-type: none"> Wi-Fi/VPN/Exchange settings Full Certificate Management 	<ul style="list-style-type: none"> Device Registration Inventory Management
Access Control	<ul style="list-style-type: none"> Role based LAN access Wi-Fi Auto Join 	<ul style="list-style-type: none"> Secure Remote Access Application specific VPN
Mobile App Mgmt.	<ul style="list-style-type: none"> Push retail apps Push custom apps/apps from VPF 	<ul style="list-style-type: none"> Role based App access App inventory & management
Access & Identity Management	<ul style="list-style-type: none"> Access to on-premise Apps Access to Cloud Apps 	<ul style="list-style-type: none"> SSO (single sign on) AD/LDAP/PKI/Radius
Mobile Content Mgmt.	<ul style="list-style-type: none"> Secure Email Sandboxing/Container 	<ul style="list-style-type: none"> Prevent iCloud DLP
On-device Security	<ul style="list-style-type: none"> Anti malware, spyware Remote locate/wipe 	<ul style="list-style-type: none"> Require Passcode URL filtering
SW Packaging/Distribution	<ul style="list-style-type: none"> SW distribution on MAC/iOS OS versioning 	<ul style="list-style-type: none"> Patch Assessment/Mgmt. File level deployment/file control



Now What?

SIMPLIFYING BYOD WITH RUCKUS WIRELESS



RUCKUS WIRELESS PROPRIETARY AND CONFIDENTIAL



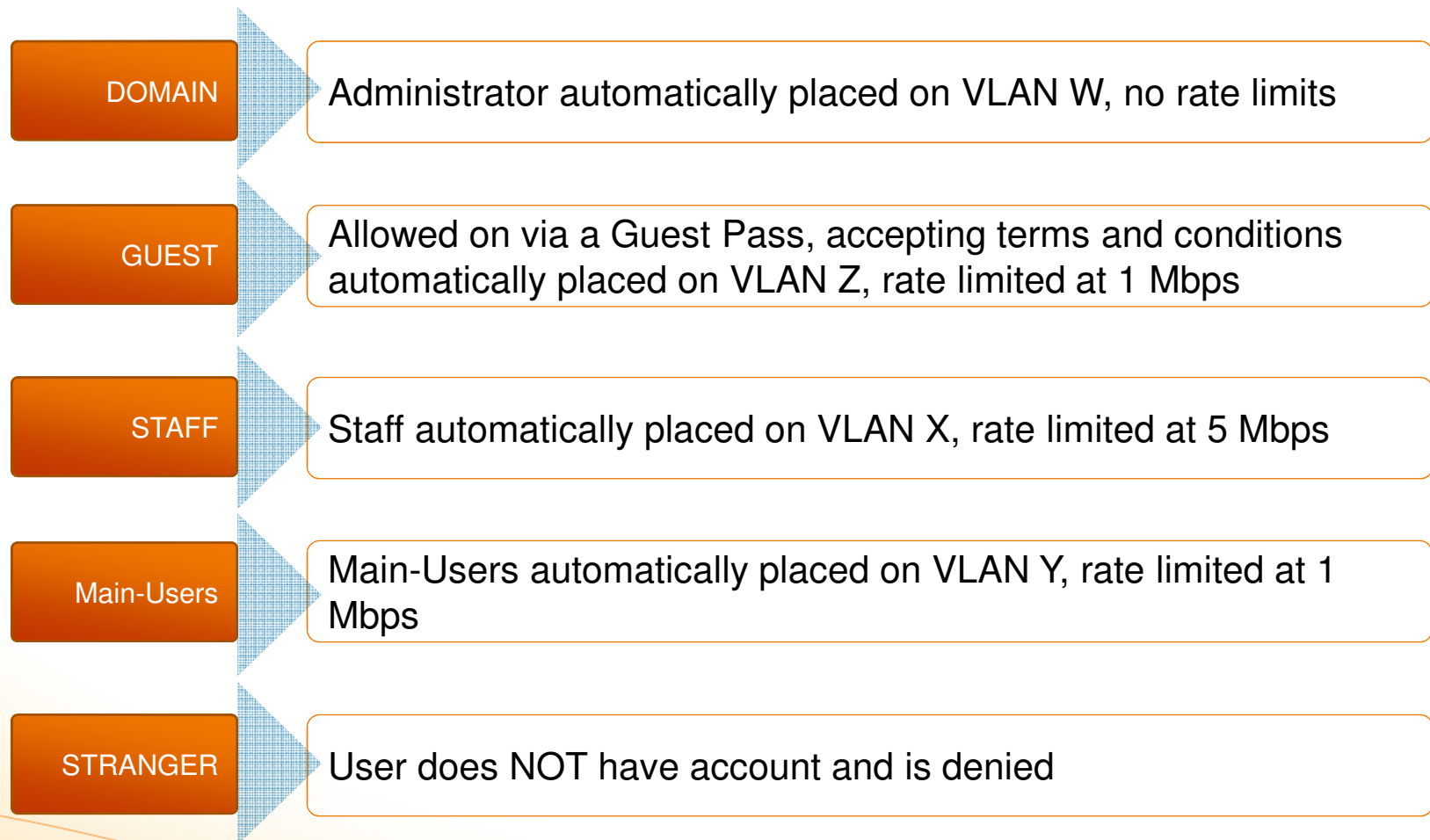


Defining the SSID Structure

- **DOMAIN SSID**
 - Owned / managed devices with access to all resources: printers, applications, files shares
- **Guest Visitor SSID**
 - Users who are not in the OUI with access only to the internet
- **Staff and Main-Users BYOD SSID**
 - Non-owned / managed devices needing Internet access and specified resources, VLAN and content filtering applied
- ***Provisioning SSID***
 - Hotspot with a walled garden attribute, redirecting all users to an activation page



Automating Role-Based Access

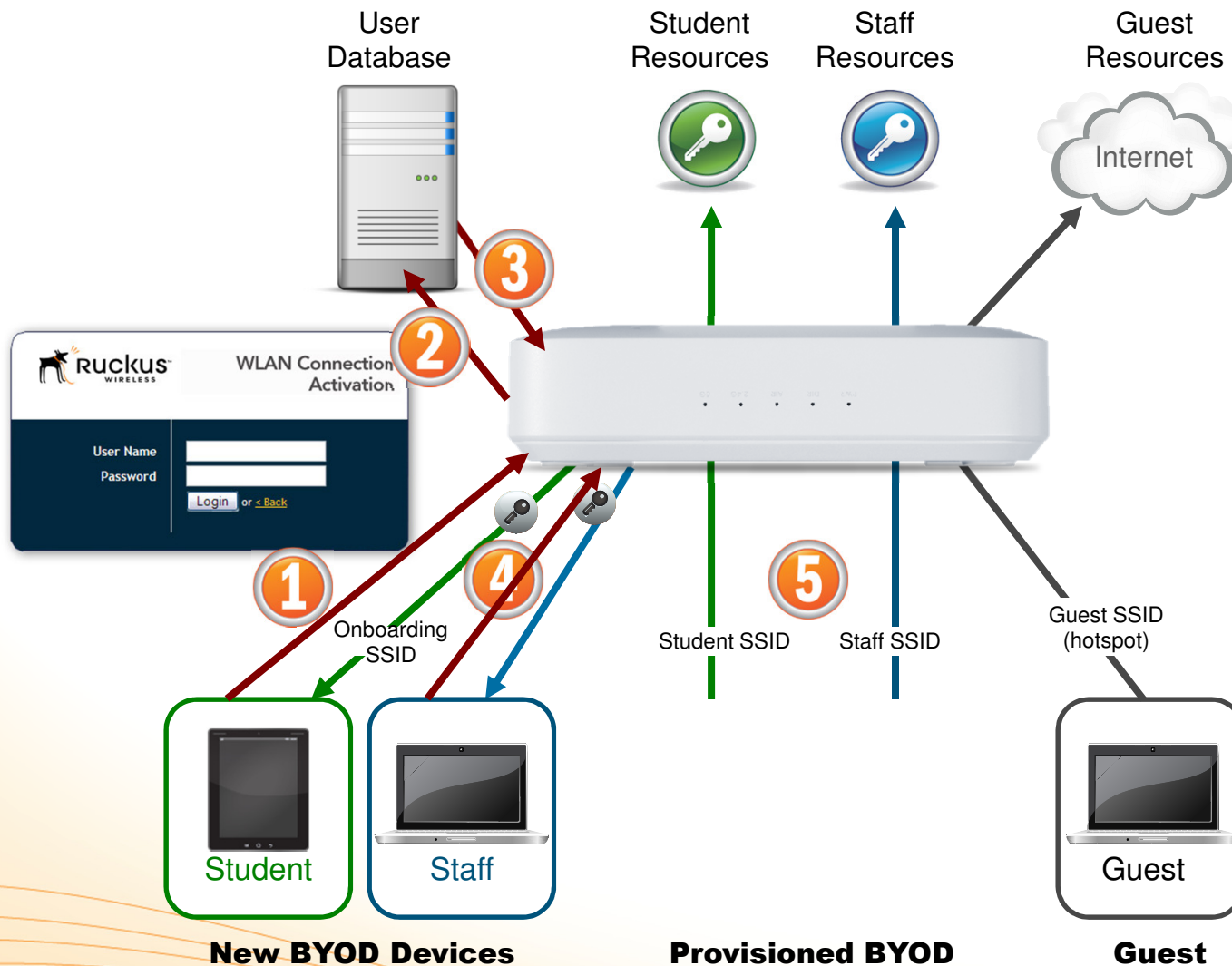




How to BYOD with Ruckus

- 1** Unknown device associates with provisioning SSID
- 2** User challenged to authenticate
- 3** ZD queries AAA domain
- 4** User placed into requisite role based on security group membership, VLAN dynamically assigned
- 5** Unique dynamic PSK automatically generated, bound with device and pushed to client
- 6** Policies applied per role and VLAN membership

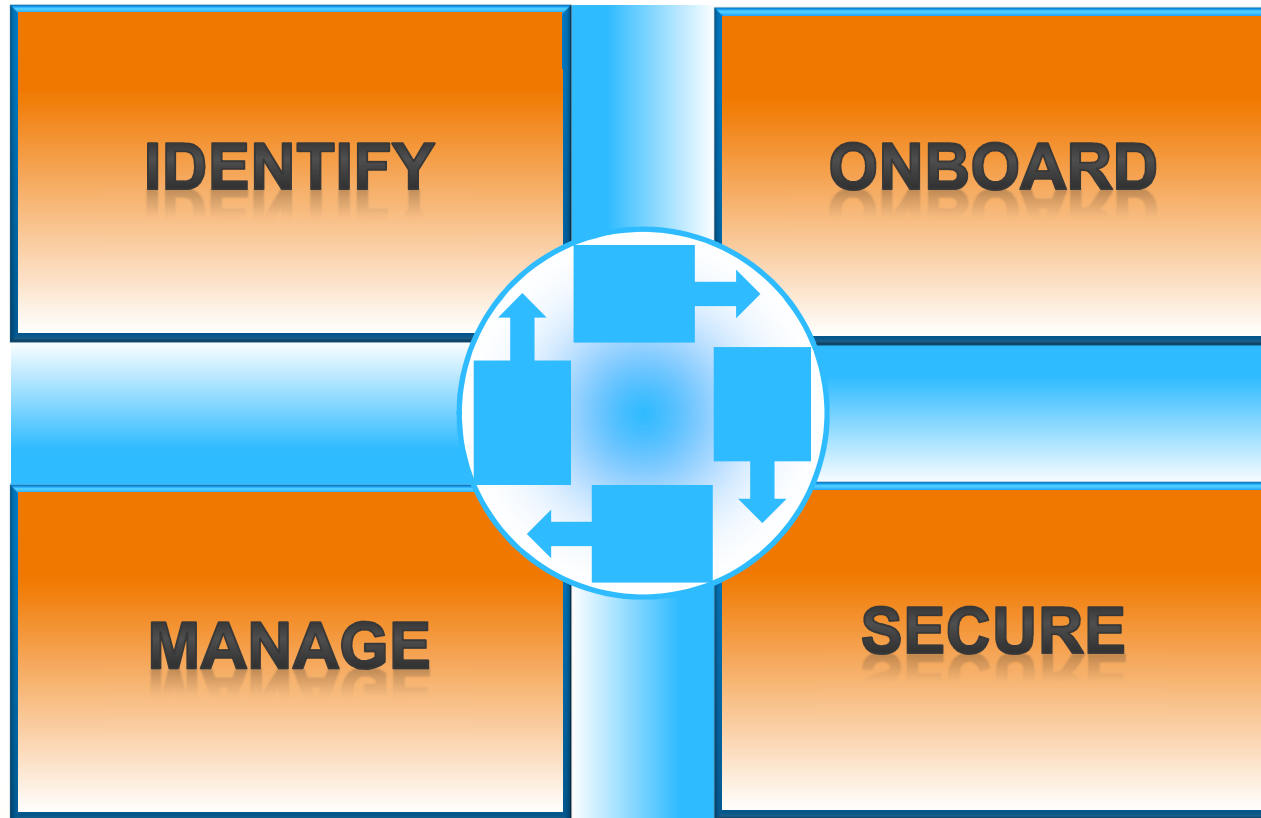
What it Looks Like



WHAT HAPPENS WHEN?

1. Users connect to a provisioning SSID and are re-directed to an onboarding portal.
2. Users enter domain credentials which are verified against a user database.
3. The user's role assignment and permissions are automatically determined based on authentication.
4. Using Zero-IT, the device is auto-provisioned with a dynamic pre-shared key and dynamically assigned to the requisite WLAN.
5. Devices re-connect on a secure WLAN, receiving network permissions according to their role.

BYOD technology

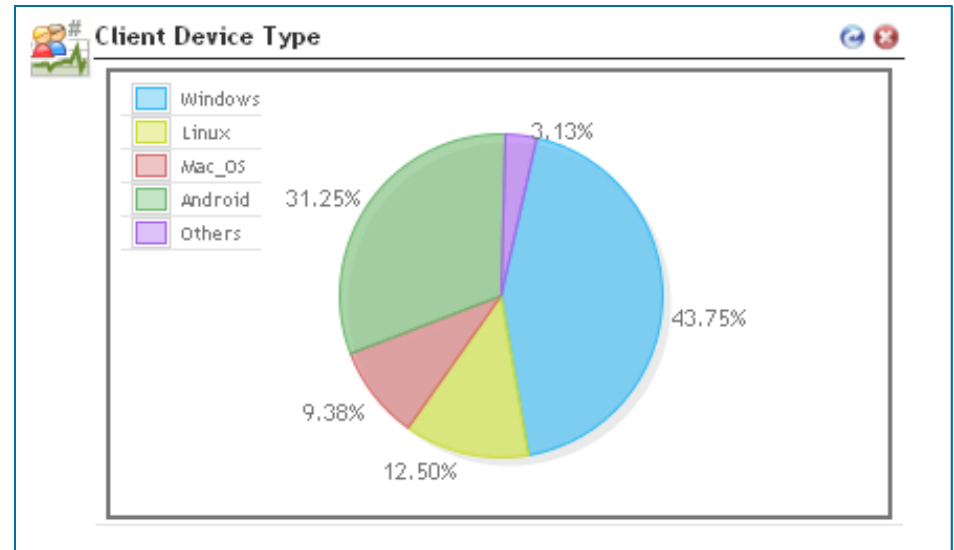




Device Identification

IDENTIFY

- Device fingerprinting
- Application recognition



- Visibility into client types connecting to network
- Assists with quick understanding of “Who’s device is this?”
- Automatically detects client info on WLAN and Wired interfaces
- Operating System
Hostname

To show a list of blocked clients, [click here](#)

MAC Address	Device Info	Host Name	User/IP	Access Point
c4:17:fe:75:74:5f	Microsoft Windows XP	WUYUN2X	192.168.1.2	ac:67:06:1b:cc:

Search terms Include all terms Include any of these t



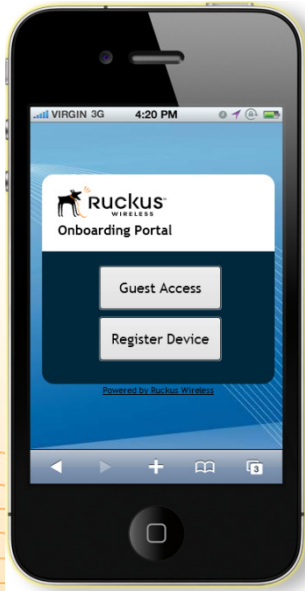
Simplified Device Registration

A modern day, mobile friendly, easy to use Wi-Fi connection option

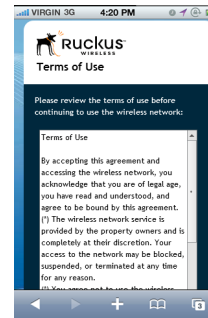
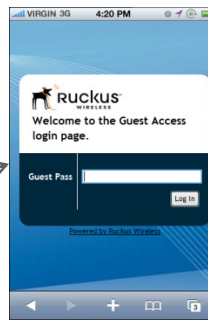
Provides a Single SSID for Guest Access & BYOD Registration

ONBOARD

- Zero-IT (802.1x, DPSK)
- Mobile device portal
- Customizable portal



Install Client Profile
DPSK/802.1x
Role based SSID



Traditional Guest Access

Proceed to unencrypted internet on BYOD SSID



Easy BYOD Registration

Move Client to Secure SSID

Policy Enforcement

1

Name	Description	Default Mode	Actions
<input type="checkbox"/> Staff Device Policies	Laptops and Tablets	Deny all by default	Edit Clone

Editing (Staff Device Policies)

Name*

Description

Default Mode Default Action if no rule is matched: Deny all by default Allow all by default

Order	Description	OS/Type	Type	Uplink	Downlink	VLAN	Action
<input type="checkbox"/> 1	PCs to VLAN 10	Windows	Allow	DISABLE	DISABLE	10	Edit Clone ▾
<input type="checkbox"/> 2	iOS to VLAN 20	Apple iOS	Allow	5.00mbps	5.00mbps	20	Edit Clone ▾
<input type="checkbox"/> 3	Android to VLAN 20	Android	Allow	5.00mbps	5.00mbps	20	Edit Clone ▴

[Create New](#) [Advanced Options](#) [Delete](#)

[OK](#) [Cancel](#)

[Create New](#) [Delete](#) 1-1 (1)

1. Configure device access policy
2. Associate policies to desired WLANs

2

General Options

Name/ESSID* ESSID

Description

Access Control

L2/MAC L3/4/IP address

Device Policy Precedence Policy

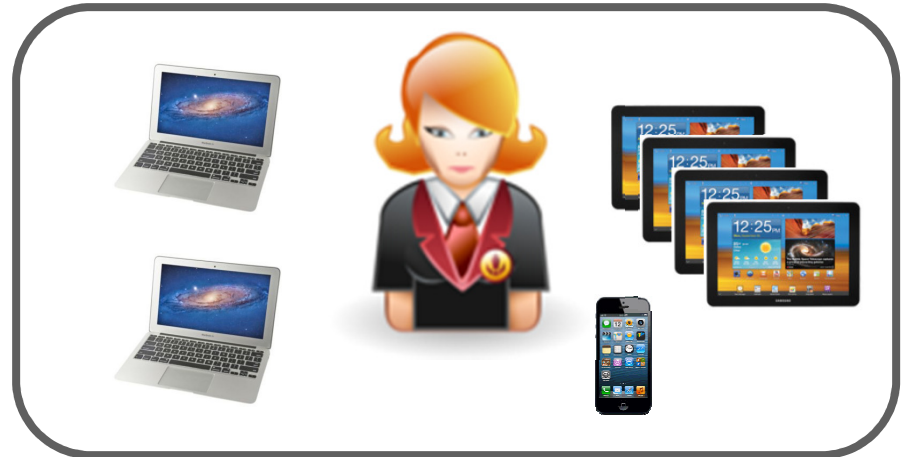
SECURE

- Access Control
- Role Based Access
- Policy enforcement



Device Access Management

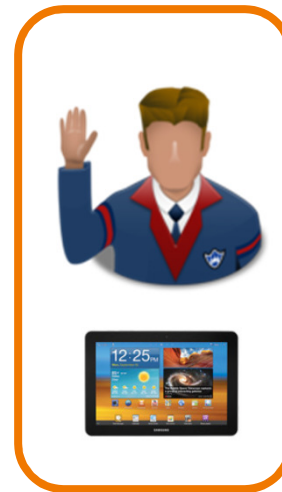
- Limit up to 4 devices per user
- Prevent sharing of user name/password
- Automatically removes expired D-PSK



Teacher - unlimited device connectivity

MANAGE

- D-PSK limits per user
- Bonjour Gateway



Student – limited to 1 device

Thanks.

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