Simplify Wi Fi Life Cycle Management

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**Maximize Wi Fi Monetization** 

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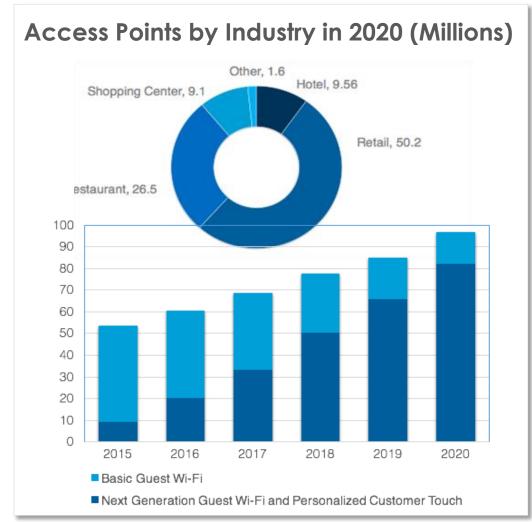
Gal Reiss - Amdocs



# The Service Provider \$25B Gold Rush Wi Fi Opportunity

Industry analysts believe service providers will key for the next-gen Wi-Fi market.

- Retain and upsell existing customers
- Establish a new revenue streams
- Add managed Wi-Fi services to implement and operate Wi-Fi networks on behalf of business customers
- Monetize on customer analytics by selling microlocation behavior intelligence data
- Create new revenue streams with micro location-based services and micro-targeted advertising.





# The Service Provider \$25B Gold Rush Wi Fi Opportunity The Money is in B2B

### Managed Business Customer Markets – High Growth Area



Hotels

#### **Business Customers:**

- Want high quality always-on service
- Want simplicity
- Prefer Opex over CapEx
- Prefer bundled services



Offices



Schools

#### MSPs:

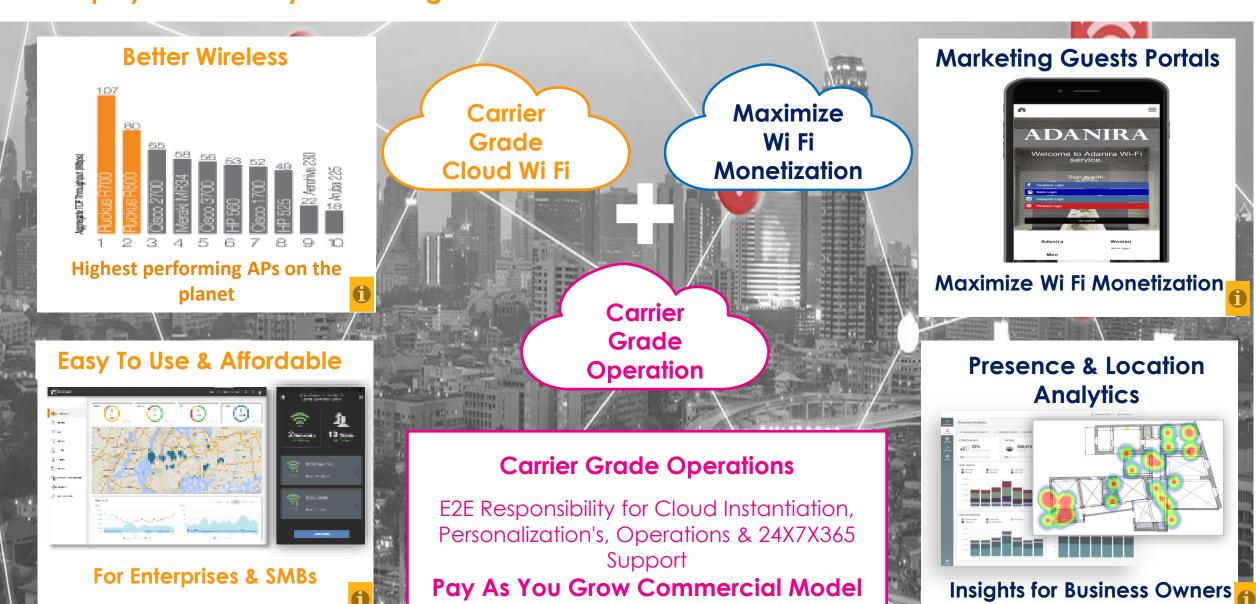
- Deliver solid solution
- Cloud reduces cost
- Opportunity to bundle services
- Generate recurring revenue



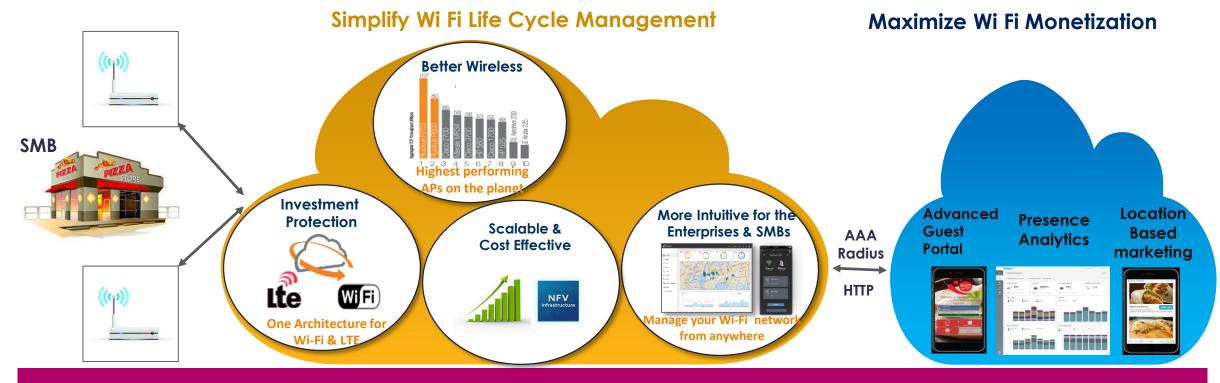
Shops



Simplify Wi Fi Life Cycle Management & Maximize Wi Fi Monetization



#### **Solution Architecture**



#### **Amdocs**

#### **Carrier Grade Cloud Management**

E2E Responsibility for Cloud Instantiation, Personalization's, Operations & 24X7X365 Support

#### Pay As You Grow Model

Attractive pay as you grow model Sharing risks and revenue growth



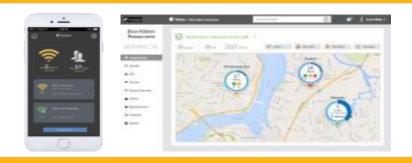
# **Amdocs Service Offering**

#### Cloud Wi Fi Setup (Personalization, Integration & Instantiation)

- White-label Uls Portal, Mobile App, Notification, Guest Portal, ...)
- OSS & BSS integration
- Custom workflows

#### Cloud Wi Fi Support & Operations

- Support 24x7 NOC support, SLA management, help desk.
- Operations Manages SW infrastructure (change management, Remediation, SW upgrades, testing)





Public Cloud
Dedicated Account

Private Cloud – Customer IaaS

#### Advanced Guest Portal, Presence & Location Analytics, Marketing

- Cloud Set up
- Cloud Operations
- Professional Services







## Amdocs Cloud Wi Fi - delivered as a Service to SP's

- Private Cloud Wi Fi
  - dedicated cloud instance
  - Full portfolio of Wi Fi APs
  - Gives control to SP
- Amdocs Managed Services
  - Delivered as a Service
  - Customization & Branding
  - Cloud deployment & operations
  - SP level support
- Fast Time-to-Market

Feature	Option A	Option B
Set-up	Project based: One-time fee based on laaS of choice, SP branding, System Integration, etc	
Subscription	OpEx - \$ / AP / year	OpEx - \$ / AP / month
Access Points	CapEx - \$ / AP	
Operations, Support	Included in Subscription	



## **WIN-WIN-WIN Offering**

#### For Service Provider

- Recurring Revenue Stream growing recurring income
- Affordable Solution cloud makes Wi Fi offering affordable for sweet spot SMB market
- OPEX Model grow with your business, and avoid capital investment and Risks
- Focus on Sales outsource operations complexity, and focus on growing your business
- Latest and Greatest –cloud solution promise market newts features with frequent transparent upgrades

#### **For Business Owners**

- Increase ARPU Average ARPU increase with High margins with a recurring services and billing model
- Retain Customers Valuable service that SMBs can rely on to increase customer loyalty
- Find New Customers -An OTT solution means attracting SMBs from other service providers that don't offer marketing tools
- Promote New products Bundle marketing services with new product promotions such as voice over Wi-Fi.

#### **For Guests**

- Always on Wi Fi service
- Get online in just a few seconds
- Enjoy automatic re-connection during future visits
- Receive relevant, personalized content about their favorite brands and products
- Receive information related to specific locations
- Have on-site interactive experiences





# Amdocs Cloud Wi Fi - Simplify Wi Fi Life Cycle Management





#### Wireless At Its Best



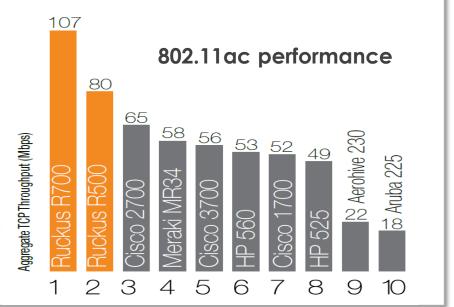




# Independent Natural testing shows the solution's wireless superiority

- Stronger Wi-Fi signals, longer ranges
- RF adapts automatically to environmental
- More concurrent users per AP
- More stable connections at higher data rates







### Simplified & Smarter for SP & SP SMBs

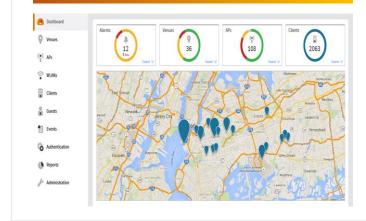


#### Web portal capabilities:

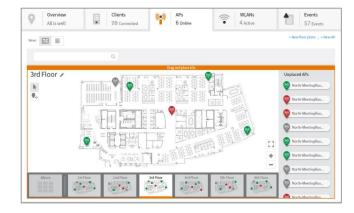
- ☐ Zero-Touch provisioning of APs and Networks
- ☐ Venue & floor management
- Multiple networks security options
- Smart analytics
- Administration



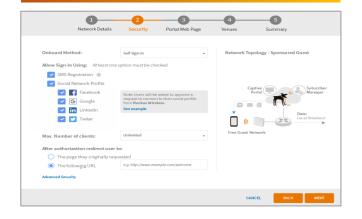
#### **Management Dashboard**



### **Venue & Floor Management**



#### **Network Social Sign On**





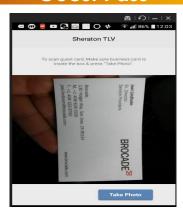
### Simplified & Smarter for SP & SP SMBs

#### **Mobile App capabilities:**

- ☐ Zero Touch provision of APs by Barcode Scanning
- Managed Guest Pass Creation with Business Card
- Managed Notification
- Geo positioning APs provisioning
- ☐ Android & iOS support



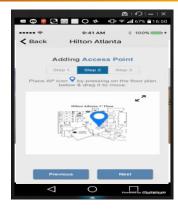
# Scan Business Card to Create Guest Pass



# Zero Touch Provisioning by Barcode Scanning



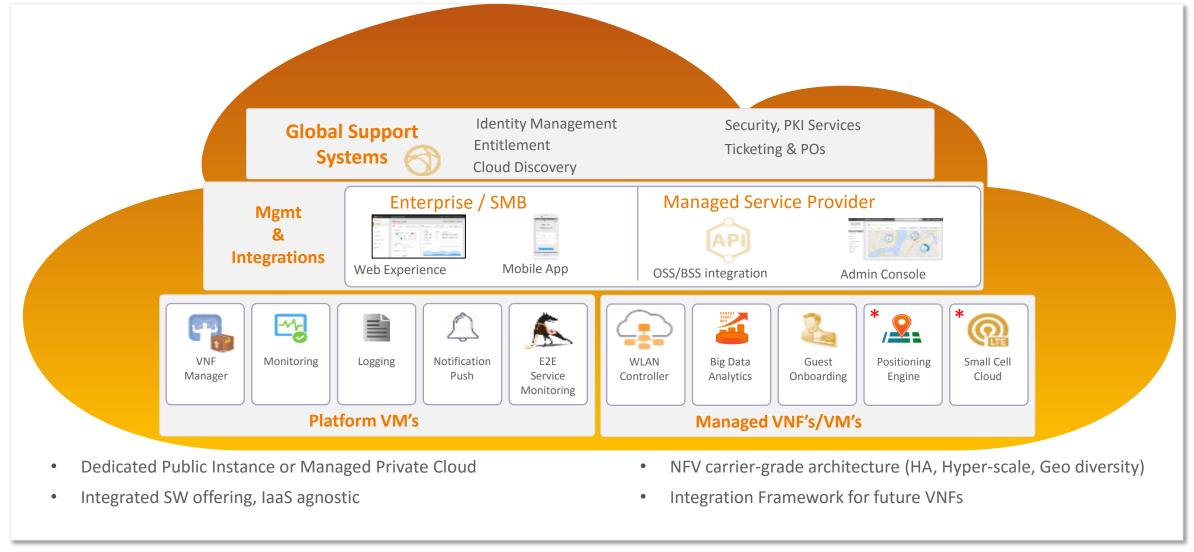
#### Adding & Calibrating





### **Amdocs Cloud Wi Fi solution**

#### **Scalable & Cost-Effective**



### Wi Fi VAS - Maximize Wi Fi Monetization

Unique point of **management** packed with **best practices** proven in the field

**Quick go-to-market** with Full **white-label** options (including mobile app)

#### Vendor independent

Portal, interfaces and APIs available to integrate and implement various workflows, and easily integrate with BSS / OSS

Guest Wi-Fi services provide a consistent, warm digital welcome

Presence and locations Analytics enable valuable customer insights

Marketing services help build strong customer relationships



#### **Amdocs**

#### **Carrier Grade Cloud Management**

E2E Responsibility for Cloud Instantiation, Personalization's, Operations & 24X7X365 Support

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# Guest Wi-Fi services provide a consistent, warm digital welcome



#### **Customizable Welcome Portal**

Customize the look and feel, content, languages, unique alias URLs and policies

#### **Multiple Login Profiles**

Choose from click-through with custom fields, to social login, and user email/phone validation

#### **Digital Device Identity**

Associate a digital identity to each device, including email address and phone number



#### **Expanded Customer Databases**

Collect valuable customer information to build unique opt-in marketing lists

#### **Flexible Internet Plans**

Set how guest Wi-Fi is used: free vs paid, recurring vs one-time use, and limit per-user time or traffic allowance

#### **Digital Front Door**

Create custom onboarding experiences that complement the brand and use applications to engage customers



# **Analytics Enable Valuable Customer Insights**



#### **User Analytics**

Get in-depth insights into who shoppers are, their demographics, devices and more

#### **Wi-Fi Service Analytics**

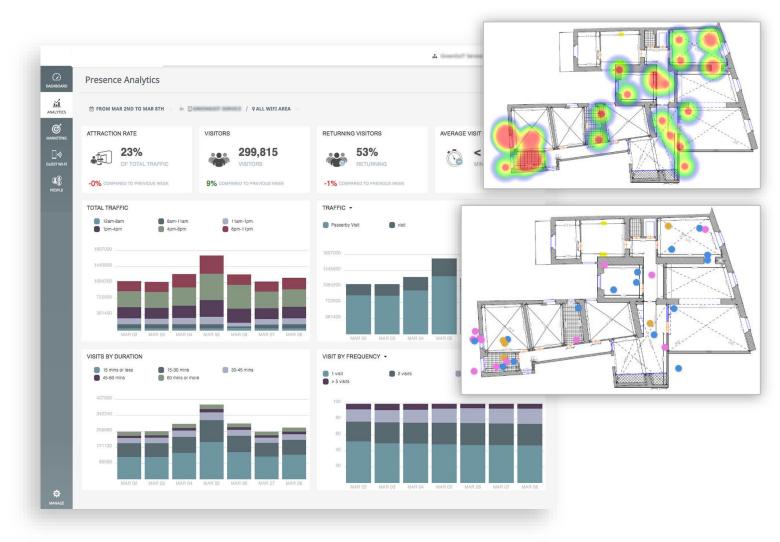
Understand how guest Wi-Fi services are used across various store locations

#### **Presence Analytics**

Collect foot traffic data and understand in-store behavior

#### **Location Analytics**

See how shoppers move around a store and the areas they spend most of their time





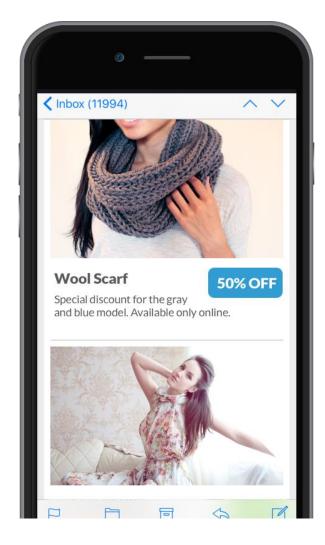
# Marketing Services Help Build Strong Customer Relationships

#### **Powerful Triggered Campaigns**

Use triggered campaigns to send coupons and messages through emails, text messages and beacon-enabled in-app notifications

#### **Impactful Advertising**

Customize ads for each store to display on the welcome portal or during the welcome journey



#### **Compelling Social Media Marketing**

Encourage 'Likes' and 'Follows' to social media accounts, 'Check-ins' to stores, and ask customers to post on their own social media accounts

#### **Robust Segment Builder**

Segment customers into different lists based on attributes and actions they've performed



### Retail vision

### Micro Location User Journey Behavior Analytics and Profile



Nicole visits a store and uses her Facebook account to log into the guest Wi-Fi. She connects her Wi-Fi Account to her Loyalty Card



The retailer collects
Nicole's email and
gains insight into who
she is via her social
profile

Micro Location Behaviour



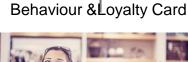
Nicole shops and spends a long time in the scarf department

A DAY LATER

Push Ads based on Microlocation Behavior Profile



A day later, she receives a coupon for \$10 of any scarf



Micro Location



Nicole leaves the store without any buying any scarves

# Retail vision (continued)

### Micro Location User Journey Behavior Analytics and Profile





Nicole visits the store again and wants to use the scarf coupon

In-Stores
Push Ads
using
iBeacon



Walking around the store, Nicole pass by the "Gloves Area" and receive a Push Notification for a glove coupon Sales Assistance Notification



Francesco, the scarf
department sales
associate, receives a
notification saying Nicole
is nearby, is interested in
a scarf, and already has
a coupon

Micro Location
Behaviour & Loyalty Card



Nicole leaves the store with both scarves and gloves

#### A DAY LATER



A day later, Nicole receives an email from the store asking her to . complete a survey about Francesco, the sales associate



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- Focus on Sales outsource operations complexity, and focus on growing your business
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#### **For Business Owners**

- Increase ARPU Average ARPU increase is typically \$20-\$50 per month with 50% margins with a recurring services and billing model
- Retain Customers Valuable service that SMBs can rely on to increase customer loyalty
- Find New Customers -An OTT solution means attracting SMBs from other service providers that don't offer marketing tools
- Promote New products Bundle marketing services with new product promotions such as voice over Wi-Fi.

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# **E2E Wi FI Services Coverage**

# Design & Deployment



Network Design RF and Capacity Planning Design WLAN and Services



Installation

On-site cabling and HW installation



Service Onboardina Configure man. tools (e.g. CISCO Prime) to enable monitoring of the WiFi network



Project Man. Man. & coordination of service design installation and onboarding

# Support for Operation



Guest
Help Desk
L1 support

Handles connectivity issues, guest login



Service Desk L2 support Monitoring
Reports generating
Troubleshooting
SW update/upgrade
Technician dispatch



Experts L3 support



Man. & Monitoring tools



Deep problem investigation System Audits

CISCO Prime and HP Airwave

**Analyzing & Predictions** 

Governance reporting Bid support

### VAS



Guest Wi Fi And Analytics

Wi Fi Guest Portals, User Journey, couponing and promotions, Presence & Location based analytics



Security

Threat detection and prevention PCI compliance reporting





Amdocs Optional



Amdocs Base Scope

