

mHealth @ Smart Hospitals

mHealth

«. . . άσκηση της ιατρικής και των υπηρεσιών υγείας μέσω των κινητών συσκευών . . .»

Συσκευές (smartphones, tablets αλλά και RFIDs, ιατρικά μηχανηματα, αισθητήρες κτλ)

Εφαρμογές

Smart Hospital

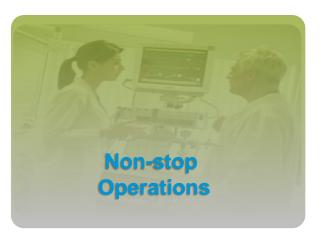
Υποδομές

Εφαρμογές

Διαδικασίες



Προτεραιότητες των Healthcare CMIOs/CIOs



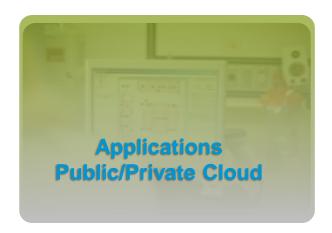








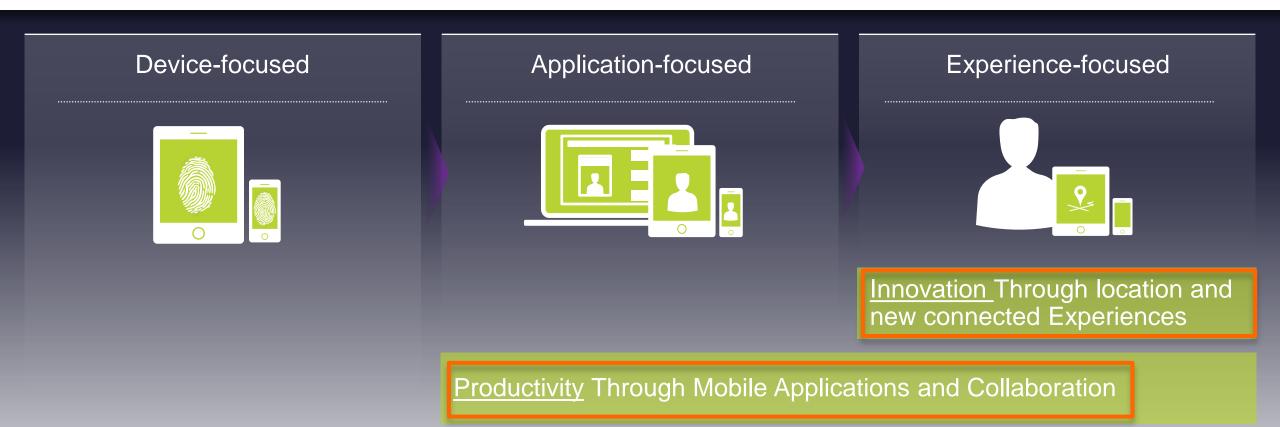






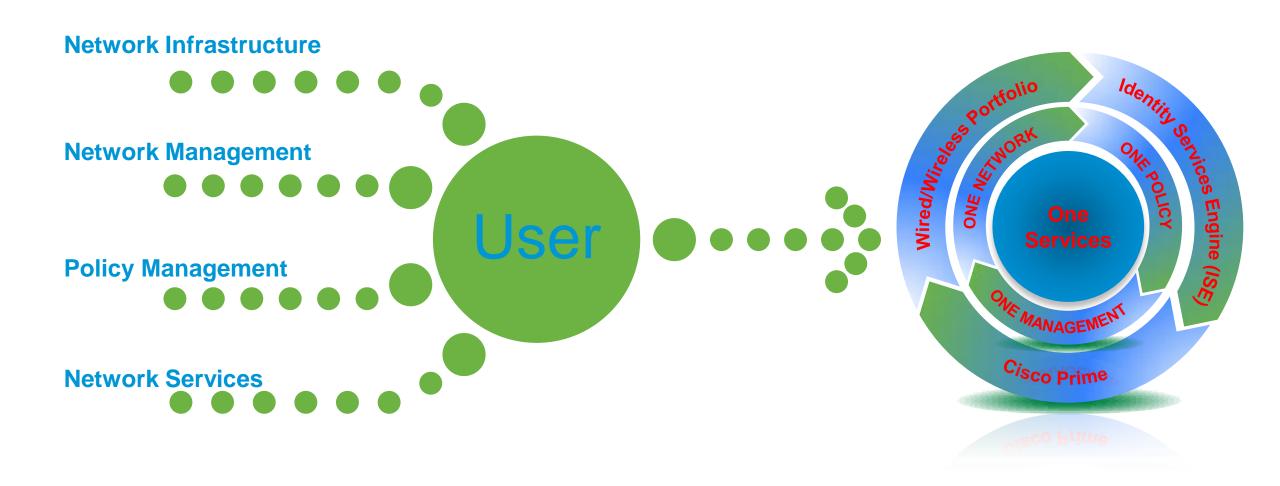
Βασικοί στόχοι: Patient Experience and Care Delivery, Staff Productivity, Operational Effectiveness

Το ταξίδι στο mobility



Foundation: Mission critical wired & wireless networks with easy, secure on-boarding & policy

Ενοποιημένη πρόσβαση (Unified Access)



Σημερινές τάσεις στην αγορά

Gigabit Wi-Fi (802.11ac)

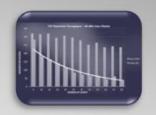
- ✓ Industry's only 4X4 MIMO antenna configuration
- Industry's only AP platform with dedicated CPU per radio
- Industry's only AP platform with dedicated Memory per radio
- Industry's only AP platform with dedicated inline RF sensors



High Density (HDX)

- ✓ CleanAir 80 MHz
- ✓ ClientLink 3.0
- ✓ Turbo Performance
- ✓ Optimized Roaming

RX-SOP





Policy & Application Visibility (AVC)

- ✓ Policy Classification Engine (PCE)
- ✓ Integrated Application Visibility and Control
- Identity Services Engine (ISE) coming in 1.3
 - Simplified Guest Management
 - · Simplified Device Onboarding
 - Simplified Active Directory Integration



✓ Big Data Analytics

Location (CMX)

- ✓ Tailored Messaging
- ✓ Targeted Onboarding
- ✓ Indoor Directions

- Low Latency Location
- Real-time Location Analytics
- BLE Visibility & Management
- Application based login

Cisco 802.11ac innovation, modularity





802.11ac Wave 1 & 2 (Future)



Cellular 3G & 4G (Future)

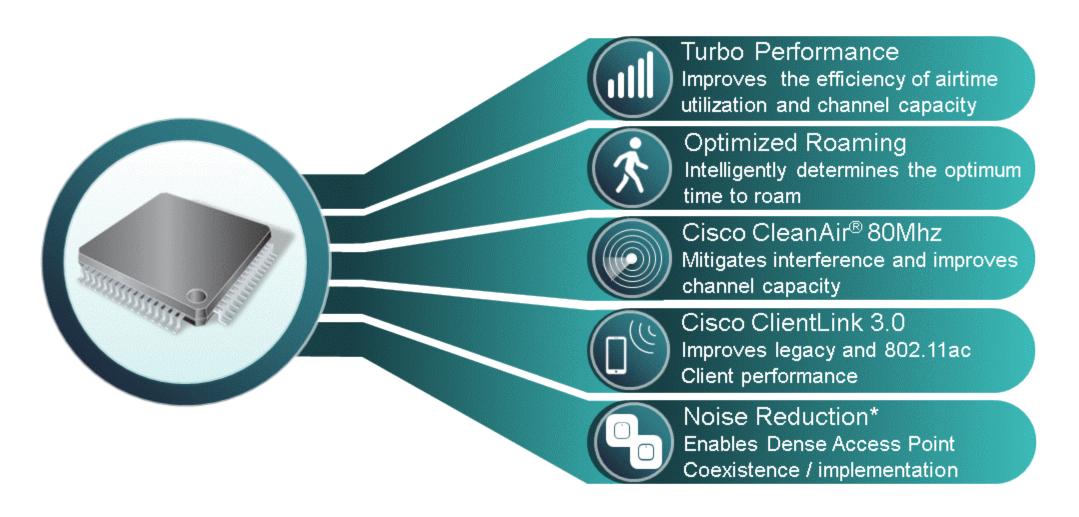


Always On Intrusion Protection



Highly Accurate Location (Future)

High Density Experience, HDX



Διαχείριση πολιτικών: Identity Services Engine (ISE)



Policy Management Increases Operational

Increases Operational Efficiency



Onboarding & Remediation

Increases Productivity and Improves
User Experience



Device Profiling & Posture

Provides Comprehensive Secure Access

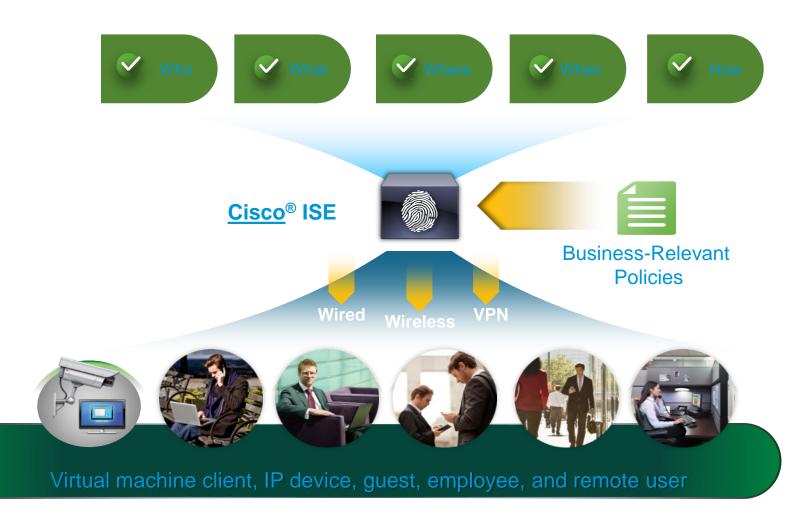


Intelligent Identity

Ensures Consistent Policies



Network Enforcement Decreases Operational Costs



Context Aware Healthcare: Εντοπισμός θέσης εξοπλισμού

Help Improve Operational Efficiency and ROI by Integrating Contextual Information



TRACKING ASSETS
Increases asset visibility
and clinical staff
responsiveness by freeing
up time from locating
medical equipment



SUPPLY CHAIN
Reduce CapEx or lease
equipment expenditure
through utilization analysis
Obtain improved utilization
of equipment with statistical
based inventory
management



EQUIPMENT
MANAGEMENT
Improve preventative and corrective maintenance workflow
Improve cleaning workflow



CONDITION MONITORING

Reduce costs, help comply with regulations, and improve productivity by automatically monitoring environmental conditions (temperature and humidity)

Επιπλέον υπηρεσίες Location-Based

Unlocking Unprecedented Business Value

INDOOR GPS

Indoor navigation within hospital to any location including depts, areas of interest. and the patient room

TARGETED MESSAGING **LOCATION-SPECIFIC ON-BOARDING**

SYSTEM INTEGRATION



Integration with systems including registration, selfrooming, and other location-based service applications

ANALYTICS



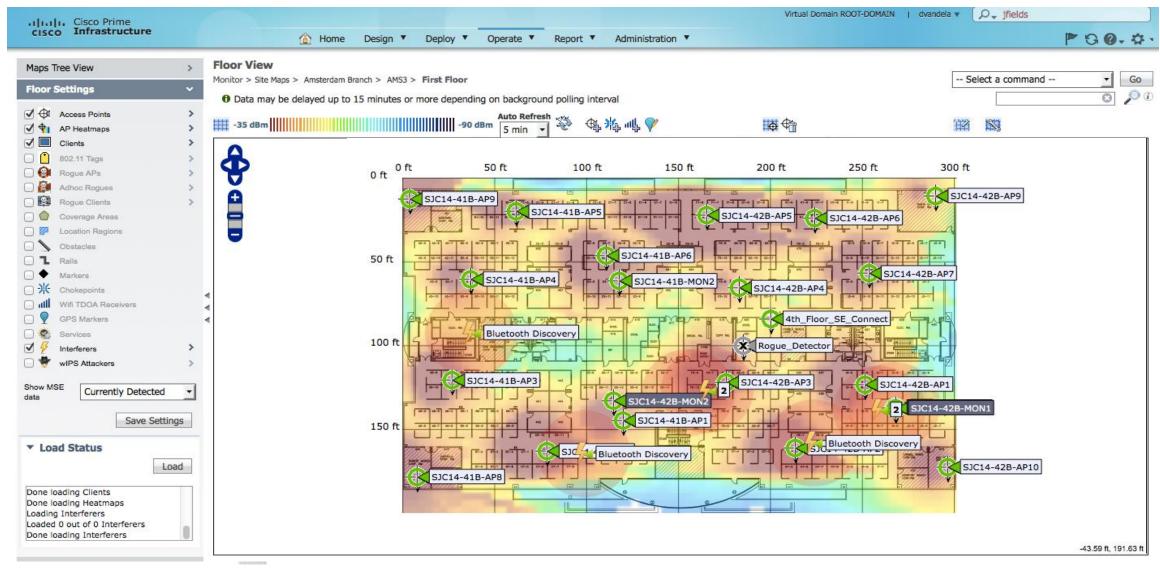
- Use gathered data to gain insight into patient flow trends
- Analyze wait and dwell times for care processes to help reduce total journey time

- **Targeted** personalized messaging based on guest location
- Location-based push notifications

Location-based onboarding experience (captive portal)

 Automatically connect to the dedicated wireless SSID network

π.χ. Location background



Διαδραστικές υπηρεσίες ασθενών και επισκεπτών

Υποδοχή/Πληροφορίες

Kiosks and Signage at Entry and Public Areas





Αίθουσες αναμονης

Information, health education, and collaboration



Mobile Guides

Personalized information delivered to devices



Δωμάτια νοσηλείας

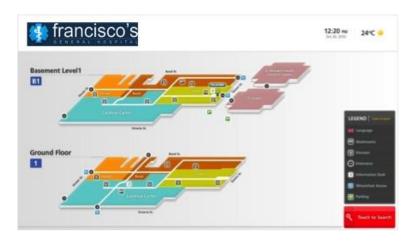
Entertainment, education, collaboration, and interaction





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π.χ. Υπηρεσίες υποδοχής: Hospital Wayfinding/Κατάλογος











Η χρήση του βίντεο στο νοσοκομείο

Emergency acute assessment – e.g. Neonatal Surgical Referral, A&E Departments

Remote Assessment

Interpreters

Multi Disciplinary Team Meetings

Mental Health Trusts

Education – watching live surgery etc

Out of Hours Clinical Assessment

Dermatology and Neurology

Remote Speech Therapy



Τηλεφωνία σε mobile συσκευές



All-in-one UC Application

- Presence & IM
- Voice, Video, voice messaging
- Desktop sharing, conferencing

Collaborate from Any Workspace

- PC, Mac, tablet, smart phone
- On-premises and Cloud
- Integration with office apps

Παρακολούθηση ασθενών μέσω video

Solution Overview

- Cisco IP Cameras and Video Surveillance Manager for video feeds from patient rooms
- Two-way communications with healthcare providers and patients

Customer Value

- Lower sitter costs by having a single operator centrally observe multiple patients
- Reduce burden on family members to providing inroom sitting services
- Provide observation services to additional lower-risk patients







Παρακολούθηση, ενημέρωση, εξυπηρέτηση

Cisco IP Camera with Cisco Video Analytics

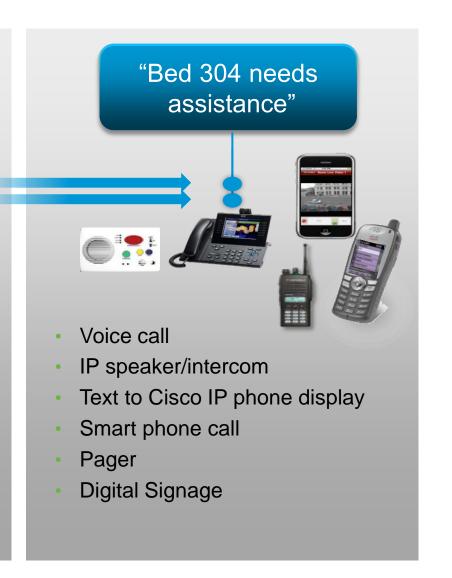
Cisco Video Surveillance and Voice / Notification







- Centralized Observation
- Timely Notification
- Ease of use and operation
- Lower Costs



Υπηρεσίες τηλειατρικής

Cisco HealthPresence 2.5 Overview

- Cisco HealthPresence 2.5 provides a software-only platform to provide more cost-effective flexibility tailored to fit customer's needs
- "Bring your own hardware" for endpoints and the server components
- Medical device compatibility based on standards, not make/model

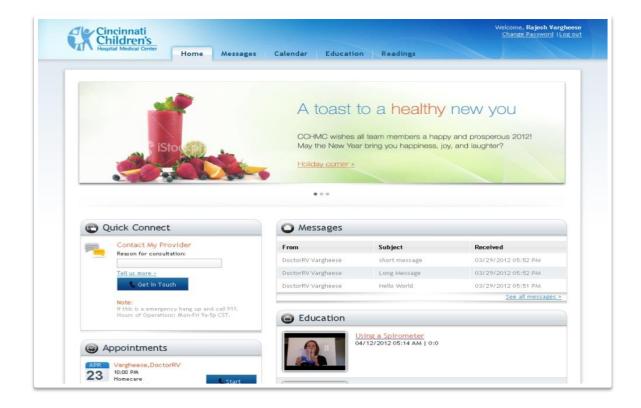
Customer Value

- Virtual access to specialists
- Support for Accountable Care Organizations
- Support many TeleHealth use cases





Ιατρικό portal (ερωτήσεις, video, συμβουλές κτλ)

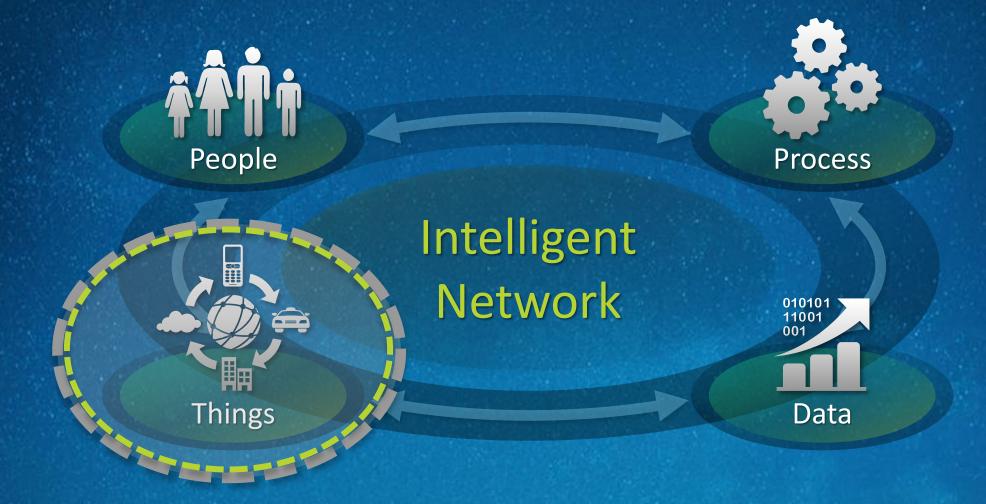




Flexible Web Portal Integration

Consultation using Real time Video

Internet of Everything



Intelligent Connections







Ευχαριστούμε

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