



Решение Cisco Wi-Fi для сервис-провайдеров

Telecom Summit 2015 Шевчук Максим 04.09.2015



Драйверы развития Wi-Fi в мире

Ценности Wi-Fi для потребителей

Wireless Services

Wi-Fi as a platform for service innovation, revenue generation and experience transformation



Mobile Offload

Wi-Fi as a 3G/4G offload technology: a mobile network optimization tool



Wi-Fi Hotspots

Wi-Fi as a hotspot technology: a traditional consumer service



Как достичь выгоды от решения

Save Money





Make Money

Retention & Loyalty



Increase customer stickiness by offering free mobile Internet through public Wi-Fi



Mobile Data Offload Optimize mobile data network or deploy offload services

Managed Services

Increase B2B revenues with managed wireless services



Location Analytics

Create new revenues through location data analytics



Location-Based Advertising

Generate new revenue streams via mobile advertising

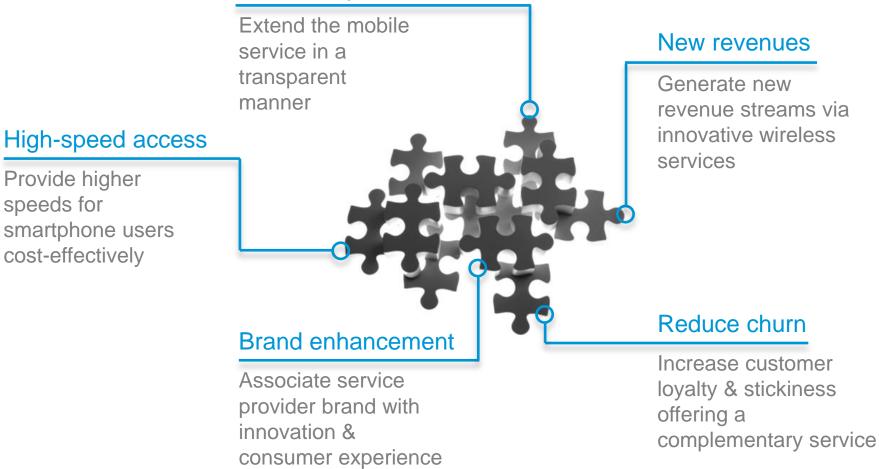


Пример: Shopping Mall



Wi-Fi содержит множество ключевых преимуществ для провайдеров

3G-like experience



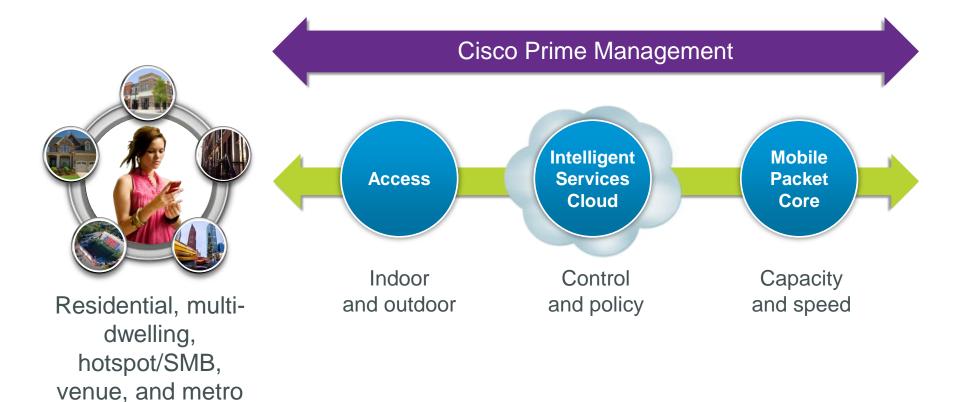
Обзор архитектуры решения **Cisco Wi-Fi** для сервиспровайдеров

The SP Wi-Fi solution set contains multiple architecture models

Which one is suitable for you and your customer?

Единственное комплексное Wi-Fi решение для сервис-провайдеров

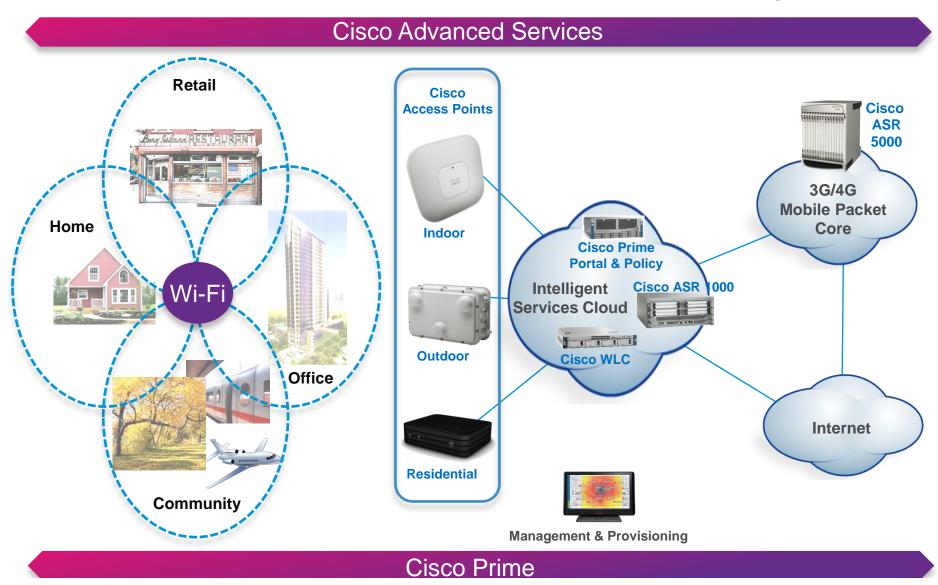




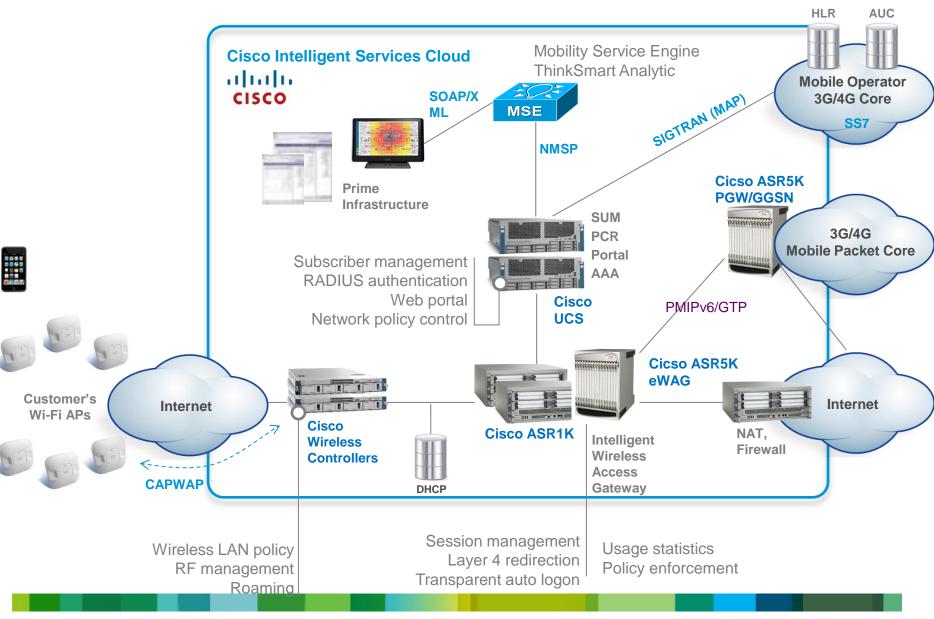
"Cisco is by far the leading vendor of service provider Wi-Fi technology, with the broadest product portfolio and greatest breadth of integration experience..."

Source: Heavy Reading: Vol. 9, No. 10, November 2011

Решение Cisco Wi-Fi операторского уровня



Обзор решения Cisco Wi-Fi для SP



Взаимодействие решения с пользовательскими устройствами

User Endpoint is a subscribers carrier experience

Coverage, Performance, Ease of use

Seamless

Authentication Network Roaming Session Roaming Policy Roaming



Authentication Options EAP-SIM

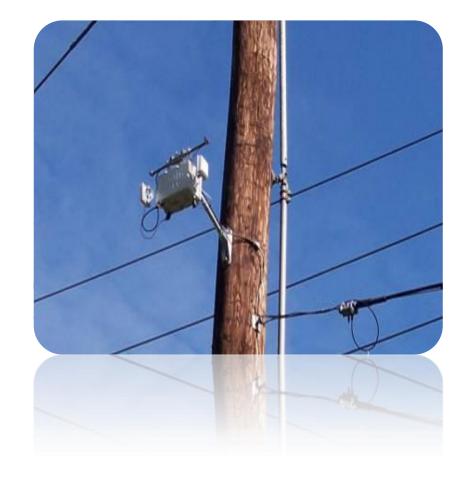
EAP-SIM EAP-AKA WISPr Web Logon MAC TAL

> Standards ANDSF HS 2.0

Goals:

- Seamless Roaming across many providers networks (HS 2.0)
- Zero Configuration (ANDSF)
- Zero footprint (Client Less)
- Support no-UE devices

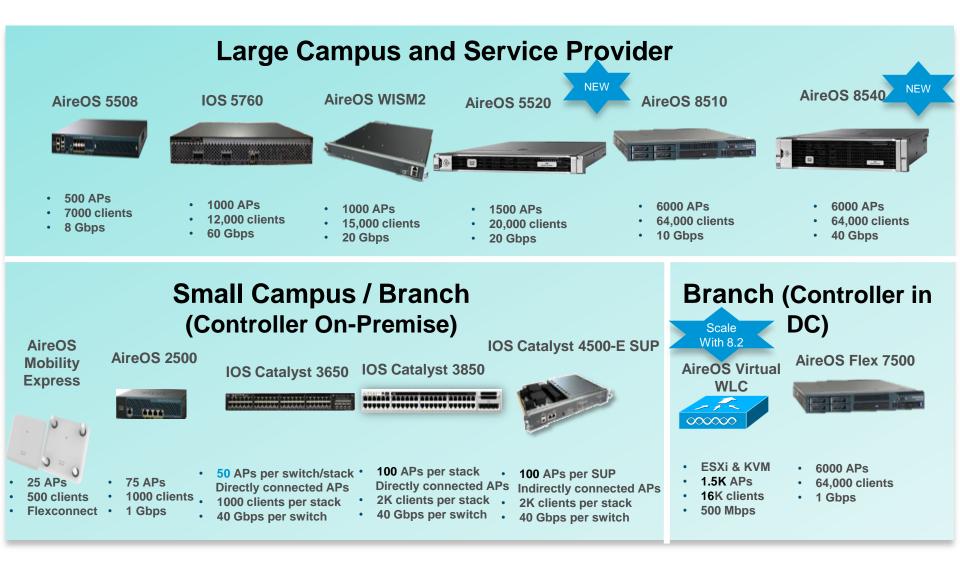
Компоненты решения Cisco Wi-Fi для SP



Основные компоненты



Портфолио WLAN контроллеров в 2015 г.



Передовые технологии Cisco

Performance, Mitigation, Scalability, and AP Roaming Optimized for High Client Density Networks

Cisco CleanAir[®] 80 MHz

Optimal performance for highthroughput, high-density environments

RF interference detection and mitigation optimized for 802.11ac's wider channel bandwidths

RF Turbo Performance

Support highly dense clients without performance degradation

Scale seamlessly to 60+ 802.11ac clients using interactive video and multimedia traffic with no performance degradation

Cisco[®] ClientLink 3.0

Increase performance and range by up to 60%

Cisco patented implicit beamforming technology for 802.11ac clients complements explicit beamforming. Also extends beamforming to 802.11a/g/n clients.

RF Noise Reduction

Dense AP deployments support high volumes of clients with minimal co-channel interference

Increase spectrum usage efficiency and improve performance

Optimized AP Roaming

Intelligently assist client roaming based on configurable attributes

Right-sized Wi-Fi cell to better assist client handoff in a dense network

Внутренние точки доступа Cisco Aironet Indoor

Industry's Best 802.11ac / 802.11n Access Points



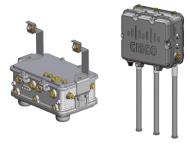
Внешние точки доступа Cisco Aironet Outdoor

Industry's Best 802.11ac / 802.11n Access Points





High Functionality



- 802.11n, 2G: 3x3:3; 5G: 2x3:2
- Low profile, competitive price
- •1x GigE port
- Power: PoE or VDC
- Int/External Antennas

- 802.11n, 2x3 MIMO : 2 SS
- Multiple models and options
- Enterprise, Carriers, MSOs
- DOCSIS 3.0 8x4
- Int/External Antennas



Точка доступа Cisco Aironet 1570 Enterprise and Carrier-class Outdoor 802.11ac with HDX Technology

Introducing Cisco Aironet 1570 Series





- 4X4 Transmit & Receive
- 3 Spatial Streams
- Max. Allowable Transmit Power*
- Flex + Mesh (Bridge) Mode
- Future Proof: Plug-in Module via POE
- Stateful Switch Over

HIGH DENSITY EXPERIENCE

RF Interference, Detection and Mitigation CleanAir for 80MHz Increase Performance and Range ClientLink 3.0 Intelligent Handoff in High Density Optimized Roaming More 802.11ac Clients per AP Turbo Performance

*Meets Highest Power allowed by FCC

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