Nokia AirScale Wi-Fi
**The Wi-Fi network you need, without heavy IT investments**

A secure and reliable Wi-Fi network is an integral part of the smooth running of many organizations. From convention centers, hotels, shopping malls and universities, to cities, airports, industrial sites and train stations, seamless Wi-Fi connects employees, customers and other stakeholders as they go about their daily business. Wi-Fi is the technology choice for enterprises, supported as it is by billions of devices and offering reliability, performance, security and low costs.

Yet, despite the importance of Wi-Fi, information and communications technology (ICT) is not the core business of most organizations. Many enterprises do not want to invest in the expertise needed to plan, deploy and run complex Wi-Fi networks.

**AirScale Wi-Fi grows with your needs**

The solution is Nokia AirScale Wi-Fi, which offers a complete package from installing Wi-Fi access points to managing the network. Using the latest technology, Nokia simplifies Wi-Fi for enterprises by taking on the responsibility for running and managing the network to support your business now and in the future. The solution leaves you free to focus on your main business priorities without investing time, money and resources into deploying and managing your own Wi-Fi network.

Nokia AirScale Wi-Fi solution consists of AirScale Wi-Fi Access Points and Wi-Fi Controller as a hosted pay-as-you-go subscription model, tailored to your needs and able to scale up or down to match changing demand.

**Rapid deployment of high performance access points**

AirScale Wi-Fi indoor and outdoor access points implement the latest generation 802.11ac Wi-Fi standard to bring aging infrastructure up to date and make it ready for future demands. Hotspot 2.0 technology allows the user’s device to automatically discover and access the Wi-Fi network with different credentials and online sign-up for ease of use and total security.

For the busiest locations, AirScale Wi-Fi implements automatic channel assignment to ensure traffic loads are balanced across the network and frequency bands to achieve fair use of resources. Fast handover and client mobility support ensure service continuity as users move from one access point to another. All of which adds up to a reliable Wi-Fi service for all users.

All the access points are compact and stylish to complement the professional environment of enterprises, both indoors and outdoors. In addition, with plug-and-play capability, they can be deployed quickly and with minimal effort for a rapid roll out of the network.

**Cloud-based controller: cost-effective and flexible**

The Nokia AirScale Wi-Fi Controller Service monitors and manages your Wi-Fi network 24/7, so you don’t have to. The cloud-based controller can manage large numbers of Wi-Fi access points deployed across the most extensive enterprise facilities.
While some enterprises may wish to deploy the controller in their own data center or other facility (to support up to 10,000 access points), the service is typically delivered from one of Nokia’s data centers. This brings several advantages, including the fastest possible Wi-Fi network deployment, minimized capital expenditure through a pay-as-you-go subscription, and easier network expansion with plug-and-play access points that can be added without disrupting the Wi-Fi service. In addition, your IT requirements for monitoring the Wi-Fi network are reduced to just a web browser and Internet access.

The Wi-Fi controller service is based on an all-inclusive subscription per access point, resulting in predictable costs that match your changing needs and requirements.

**Protecting you and your customers**

Security must be absolute when deploying Wi-Fi in public spaces. Nokia AirScale Wi-Fi has advanced capabilities to detect and classify malicious activities, including the mitigation of rogue access points that could damage user data security and network performance.

The Wi-Fi Controller provides secure user authentication for sensitive transactions and critical IoT applications, while IPSec can be configured on the bearer plane between access points and a security gateway to tunnel traffic securely.

**Wi-Fi matched to the needs of all segments**

Nokia AirScale Wi-Fi has the flexibility to support almost any size of enterprise, no matter how extensive their needs, and whatever their communications aims.

**High-density venues from airports to stadiums**

High-density venues include stadiums, event arenas, convention centers, airports, train stations, retail malls and universities. All are locations at which people congregate in large numbers and expect reliable connectivity. Often, the venue will also seek to provide digital services to entertain and engage visitors.

Combining AirScale Wi-Fi with other Nokia solutions enables a complete, high-capacity venue network to be built using cost-effective wireless and wireline connectivity. For example, our Mobile Edge Computing solution supports value-adding applications, such as local delivery of high definition video, augmented reality, contextual advertisements, indoor navigation and footfall analysis.

**Cities and municipalities**

Ubiquitous wireless connectivity underpins the smart city by connecting citizens and visitors, as well as IoT applications to manage resources and safety efficiently.

AirScale Wi-Fi outdoor access points with plug-on or external antennas provide the capacity and coverage needed in open spaces such as city squares, streets and parks, for both line-of-sight and non-line-of-sight communications. These compact units integrate easily with street furniture such as advertising pillars, bus stops and equipment shelters. In parallel, indoor Wi-Fi access points can be deployed in public buildings.
Hospitality and retail chains

Good Wi-Fi has become a key consideration for travelers choosing where to stay, encouraging hotel chains to demand solutions that offer high performance with low costs. A hosted Wi-Fi solution meets these criteria. Meanwhile, retailers use Wi-Fi to engage with customers through targeted offers and other digital services to make the physical shopping experience more enticing than online shopping. Wi-Fi is also a key technology for optimizing internal business processes with wireless barcode scanners and asset tracking solutions.

Nokia AirScale Wi-Fi solution meets the needs of highly distributed hospitality and retail deployments, while providing the lowest cost of ownership, the highest performance, simple operation and complete security for sensitive wireless payments and handling of customers’ personal data.

Industrial facilities

Power utilities, healthcare, logistics and manufacturing enterprises are increasingly digitizing their business operations, making robust and secure wireless connectivity a critical requirement.

Nokia AirScale Wi-Fi, combined with our other solutions, creates integrated high-capacity campus networks with carrier-like attributes.

Nokia is the Wi-Fi powerhouse

Connecting people for years, Nokia has built unrivalled technical expertise in planning and managing operator networks 24/7. We have vast experience of designing high-quality radio products that meet the toughest user demands. This know-how is now being applied to our AirScale Wi-Fi solution, which is based on the latest radio and cloud technologies.

Thanks to Nokia’s long heritage of providing carrier class networks, we are ready to provide the service support you need. Our Professional Services encompass network planning, solution integration and network implementation. For example, our advanced coverage and capacity planning services help ensure the success of high-density venue Wi-Fi networks, while our engineering consultancy services support the integration of Wi-Fi access points with street furniture.

Nokia is a major player in communications with a strong presence in Wi-Fi. Unlike numerous smaller Wi-Fi service providers, Nokia is a reliable long-term partner with the staying power to support your needs long into the future.

The total Wi-Fi solution that’s ready now

Nokia AirScale Wi-Fi is a high-performance, end-to-end solution for enterprises that’s easy to deploy and run, backed by a world-leading...
communications solutions vendor. We offer the technology and expertise to deploy and run your Wi-Fi network to the highest quality levels without you needing to make substantial capital investments in servers and other hardware. Nor will you need extensive IT capabilities and resources to look after the network.

With Nokia, Wi-Fi becomes a key part of your business success by providing additional revenue generation opportunities and improved operational efficiency. Not only will you enjoy the high quality communications technology that our operator customers get but, as Wi-Fi evolves into a new digital communications ecosystem, you can be sure of our long-term support.

**Nokia AirScale Wi-Fi key at-a-glance:**

- No large network infrastructure - Nokia AirScale Wi-Fi is provided as a service
- Subscription-based to avoid tying up equity in network infrastructure
- No large investments to update the network when required
- Minimizes Wi-Fi network deployment time and required IT skills
- Minimizes total cost of ownership with low-priced Wi-Fi access points
- Eliminates operational costs to monitor your network 24/7, manage software upgrades and optimize connectivity
- Simplifies network expansion by adding plug-and-play Wi-Fi access points without degrading live services
- Reduces your IT requirements to a simple web browser and Internet access to manage your Wi-Fi network from any place, at any time
About Nokia

Nokia is a global leader in the technologies that connect people and things. Powered by the innovation of Bell Labs and Nokia Technologies, the company is at the forefront of creating and licensing the technologies that are increasingly at the heart of our connected lives.

With state-of-the-art software, hardware and services for any type of network, Nokia is uniquely positioned to help communication service providers, governments, and large enterprises deliver on the promise of 5G, the Cloud and the Internet of Things. [http://nokia.com](http://nokia.com)

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