

# Nokia and Cisco:

## Extending the Power of Cost-Effective IP Communications to Nokia Eseries Smartphones

Companies are turning to Nokia and Cisco to drive productivity and profitability into the enterprise through the convergence of fixed and mobile technologies. By working together, Nokia and Cisco are able to offer complementary products, such as dual-mode devices, mobile VPN and firewall security solutions, and the networking and telephony infrastructure necessary for deployment, which can be combined to form a tightly integrated end-to-end business communications solution. This fixed mobile convergence (FMC) solution makes it possible for your business to mobilize your workforce in a controlled and secure manner, while leveraging your Cisco wireless LAN (WLAN) and IP communications infrastructure. The increased integration of mobile phones into your company's voice network and back-office systems enables better management of telephony capital and operational costs. And this future-pointing solution positions your company to take advantage of the next generation of voice applications.

When you extend your Cisco IP Communications functionality to Nokia Eseries smartphones, you get the power to drive device functionality and employee productivity up—and your mobile phone communication costs down. Using this end-to-end solution, dual-mode Nokia Eseries smartphones are capable of both cellular and lower-cost IP communications via a Cisco WLAN network, and have access to advanced phone features and functionality provided by Cisco CallManager and CallManager Express. Time and cost-saving opportunities for employees and companies include:

- the ability for employees to utilize private WLAN networks instead of cellular networks when they are in the office, in a satellite office, or at home—reducing mobile service fees and providing improved control over telecommunications costs.



- the ability to quickly and easily extend call features that are traditionally only available on desktop phones to Nokia mobile phones—including abbreviated extension dialing, multi-party conference calling, call transfer, and hold.
- the ability to automatically route desk phone calls to Nokia Eseries smartphones, delivering convenience and simplicity to both employees and customers. Business calls are automatically delivered to an employee's desk phone and mobile phone, which reduces the chance of missing calls and helps customers reach employees faster and easier. In addition, employees only have one business voice mail box to manage, which can help save time and increase efficiency.
- least-cost routing support for cost savings on international and long distance calls when calling from Nokia Eseries smartphones in the office or when working from a satellite office or at home.

- the ability to leverage the corporate voice infrastructure for call recording and automated reporting features to meet regulatory compliance and reduce the time employees and accounting departments spend on managing mobile phone expenses.
- better in-building coverage and availability, provided by the capability to route telephony services through WLAN when mobile network may not be available or is unreliable.

### Efficiently Leverage Existing IT Infrastructure and Provide Compelling ROI

Simple installation of Nokia's client software on Nokia Eseries devices enables integration with Cisco's CallManager and CallManager Express comprehensive IP over WLAN business voice communications solutions. The Nokia client supports

SCCP (Skinny Client Control Protocol), a Cisco protocol used between Cisco CallManager and endpoint devices. It also supports Cisco Compatible Extensions for interoperability with Cisco's WLAN. With the Nokia client and Nokia Eseries smartphones, you can leverage your existing investment in your Cisco WLAN and Cisco IP Communications solution—as well as provide more robust functionality for mobile users.

## Scalable to Meet the Needs of Your Organization

Whether you have a small office, branch office, or large corporation, this solution easily scales, delivering cost-effective IP communications functionality to Nokia Eseries smartphones. Cisco CallManager offers a unique, distributable architecture that enables multiple Cisco CallManager servers to be clustered and managed as a single entity, providing support for up to 30,000 users per cluster—complete with load balancing and call-processing service redundancy. Multiple clusters can be interlinked to increase support up

to one million users. For small offices, branch offices, and mid-sized businesses, Cisco CallManager Express provides up to 240 users with cost-effective, reliable, feature-rich IP communications capability that is simple to deploy, administer, and maintain.

## Enterprise-Level Secure Communications

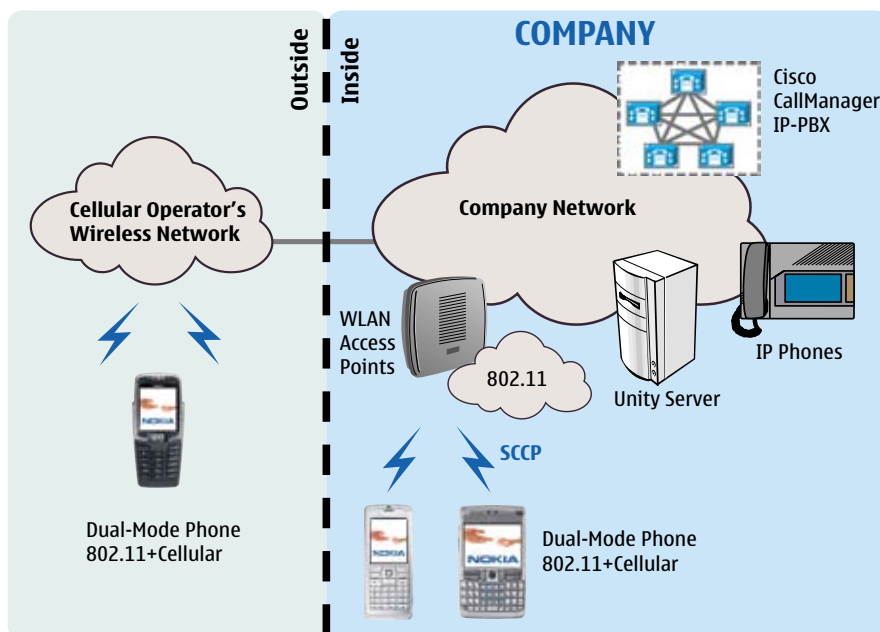
Nokia and Cisco provide advanced features for securing communications. IP communications over a WLAN are secured through WLAN-based authentication and encryption protocol. Nokia Mobile VPN also provides secure access to the compatible company network for traveling employees.

## Nokia Eseries Smartphones

The Nokia E60, Nokia E61, and Nokia E70 smartphones integrate the Nokia client for Cisco CallManager and CallManager Express, as well as support add-on email solutions such as Nokia Business Center, to provide employees with access to important

business applications from one mobile device. Features include:

- **Business productivity components:** WLAN connectivity, voice dialing and commands, handsfree speakerphone, contacts and calendar with PC synchronization, mobile messaging, and large memory capacity.
- **Software:** Support for Java and Symbian applications, as well as third party push email applications, enables customization to meet your specific business needs.
- **Security:** Compatibility with a range of security solutions gives you the possibility to control that only trusted Nokia devices can access corporate applications, and the ability to easily deploy and update security policies enables you to secure your data connections.
- **Support:** With Nokia Access for Business Devices support services, IT managers can reduce the cost, time, and effort required to deploy and maintain secure Nokia smartphones.
- **Nokia Professional Services:** This range of strategic services provides assistance for the life-cycle of your Nokia enterprise mobility solution, from planning and design to integration and support.



## Solution Requirements

### Supported Nokia mobile devices

- Nokia Eseries dual-mode business devices, including Nokia E60, Nokia E61, and Nokia E70 smartphones

### Nokia client software

- Nokia client for Cisco CallManager or Cisco CallManager Express [SCCP and Cisco Compatible Extensions V3]

### Cisco software

One of the following:

- Cisco CallManager Release 4.x
- Cisco CallManager Release 5.0
- Cisco CallManager Express Release 3.x

### Cisco WLAN

- Cisco Unified WLAN infrastructure

For more information visit:

**Cisco**

[www.cisco.com](http://www.cisco.com)

**Nokia**

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[www.nokiausa.com/business](http://www.nokiausa.com/business)

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