

Nokia Intellisync Call Connect 1.1 for Cisco

NOKIA

Nokia for Business

One phone, many solutions. That is what Nokia Intellisync Call Connect delivers. This solution integrates Nokia Eseries devices into the corporate voice infrastructure, i.e., IP PBX. In this way, it addresses IT managers' challenges in managing overlapping fixed and mobile voice infrastructures, as well as end-users' challenges in using multiple devices, multiple phone numbers, and multiple voice services. Nokia Intellisync Call Connect quickly, conveniently, and affordably brings this all together.

Nokia Intellisync Call Connect enables the use of a Nokia Eseries device as a primary business phone.

The solution is an installable S60 application that integrates Nokia Eseries devices with Cisco Unified Communications Manager, Cisco Unified Communications Manager Express using WLAN, and Cisco SCCP protocol. The mobile phone will appear as a native extension on the Communications Manager and routes all mobile calls made in WLAN coverage using VoIP.

This solution also provides access to value-added business telephony features that are normally available only on high-end desk phones. Features include VoIP calls over WLAN, automatic registration, one business number, call transfer, hold, resume, park, pick-up and short number dialing.

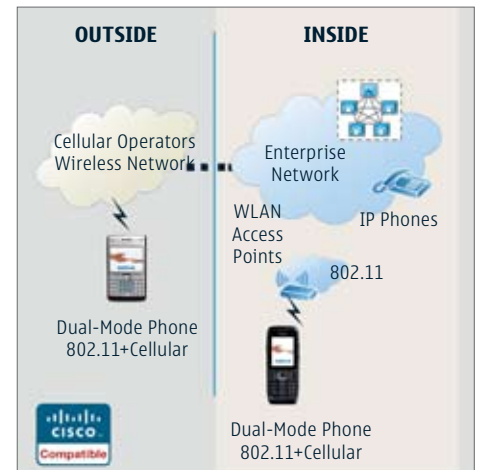
System Requirements

Supported Cisco infrastructure:

- Cisco Unified Communications Manager 6.x
- Cisco Unified Communications Manager 5.x
- Cisco Unified Communications Manager 4.2
- Cisco Unified Communications Manager 4.1x
- Cisco Unified Communications Manager Express 4.1
- Cisco Unified Communications 500 Series for Small Business

S60 3.0 Mobile Devices:

- Nokia E51
- Nokia E60 (PR3)
- Nokia E61 (PR3)
- Nokia E61i
- Nokia E65



WLAN Support

WLAN Security:

Nokia Eseries is compatible with Cisco Compatible Extensions, release 3.

Nokia Eseries supports the following key management types:

- WEP 64bit
- EAP-SIM
- 802.1X with dynamic WEP
- WPA-PSK
- WPA2-PSK
- WPA-Enterprise
- WPA2-Enterprise
- CCKM (with TKIP cipher)
 - recommended for fast roaming, supported only with 802.1x

The following EAP types are supported:

- EAP-TLS
- EAP-PEAP
- EAP-LEAP
- EAP-TTLS
- EAP-SIM
- EAP-AKA
- EAP-MSCHAPv2
- EAP-GTC
- MSCHAPv2

The following encryption methods are supported:

- WEP 64bit
- WEP 128bit
- TKIP
- AES

Basic Call Features	
Automatic Registration	When user enters the office and the device detects the enterprise WLAN network, Nokia Intellisync Call Connect will automatically register to the IP PBX (Cisco Unified Communications Manager or Cisco Unified Communications Manager Express). After successful registration the device will appear as a native end point on the corporate voice infrastructure and all inbound and outbound calls will be routed using the IP PBX; collectively referenced as Cisco Unified Communications System.
Receive Business Calls and VoIP Indicator	Incoming business calls will appear on the device the same way as cellular calls. The only difference is with telephony: a user interface VoIP indicator will be shown instead of a cellular indicator. Users will still answer an incoming call normally.
CLIP / CLIR	For both inbound and outbound calls, Nokia Intellisync Call Connect supports caller line identity presentation (CLIP) and caller line identity restriction (CLIR).
Display Name	When receiving an inbound call from a company internal person, the caller's name, instead of the number, will appear on the user interface. This also occurs when the number is not stored in the local contacts database. .
Call Reject	When a user prefers not to answer an incoming call while on the business call, he/she can reject the call. The calling party will then be automatically forwarded to the voice mail system.
Call Waiting	When a user has an active call, the second incoming call can be put into a waiting mode. The second call will appear on the user interface. This feature is supported for both cellular and VoIP calls.
Making a Business Call	After successful registration to Cisco Unified Communications System, all outbound calls will be routed using Cisco Unified Communications System. The mobile phone is used in the very same way and users can initiate calls from the contact directory, a messaging application, or dialing directly. The call will appear on the user interface and the VoIP indicator shows that call is being made over WLAN.
Short Number Dialing	A user can initiate internal calls using three, or four digit internal extension numbers.
Emergency Call, E911	Emergency calls are primarily routed through the cellular network. However, when coverage is not available, Nokia Intellisync Call Connect will try the call through WLAN and IP PBX
Making a Personal Call	Even if a user is registered to the Cisco Unified Communications System, he/she can make a personal call by selecting 'voice call' from the call menu. The destination party will then see the mobile phone number instead of the business number.
Do-not-disturb	A user can activate the do-not-disturb feature when he/she prefers not to receive business calls. When active, the business call will appear normally on the call log, rather than alert.
In-Call Features	
Hold and Resume	During an active business call a user can put the call on hold. The other party will be put on hold until the user resumes the call.
Consultation Call	During an active business call user can initiate a second business call to another person. The first call will be put on hold and the party will hear music on hold, until his/her call will be resumed.
Swap	While having two calls, one active and one on hold, a user can swap between the calls. The one call on hold will become active while the other is put on hold.
Attended Transfer	While having two calls, one active and one on hold, a user can transfer the active call to the third party call. The original user will become disconnected from all calls, while the two remaining parties continue the call.
Unattended Transfer	During an active business call, a user can directly transfer that one call to a third party.

Multi-party Conference Call	While having two calls, one active and one on hold, a user can activate a three-party conference call. The maximum number of the participants on a multi-party conference call is five (1+4).
Switch to Cellular	When having an active call while leaving the corporate WLAN coverage, user can continue the call on cellular network by activating this feature and answering on the next incoming call. (supported in Nokia E51)
Support for Shared Line	If a user has a shared line configuration between his/her mobile phone and deskphone, that user can put the mobile business call on hold and pick the call on his/her desk phone.
Call Park	Call park enables users to put an active call on hold, then pick it up from another end point. When a user parks an active call, a park number will appear on the user interface.
Call Un-park	A parked call can be un-parked by dialing the park number. The user will then be connected with the parked call.
Call Pick Up	If a user is part of a call group and shares the same extension number with multiple persons, he/she can pick calls from the group call extension using call pickup.
Group Call Pick Up	If a user is part of multiple call groups, he/she can pick up a call from another group using group call pickup feature.
DTMF	During an active call, a user can interact with voice mail systems and interactive voice response systems (IVR) by sending DTMF tones.
Voice Mail	
One Voice Mail	Nokia Intellisync Call Connect enables a user to configure business voice mail on his/her mobile device. Business voice mail can also be configured to allow for only one voice mail box.
Call Voice Mail	A user can call his/her voice mail box using the shortcut button. This solution will then confirm that the user wants to be connected with his/her cellular business voice mail.
Message Waiting Notification	After a successful registration to Cisco Unified Communications System, a user will receive a voice mail system notification when there are new messages in his/her inbox. The notification will appear on the mobile device interface as an SMS.
On-line Services	While on corporate WLAN coverage, user can access the corporate intranet services with the mobile browser. The services may include corporate phonebook, call log, user settings or other features depending on their availability in corporate network.
License Management	During the first time installation the user must enter a valid license key in order to start using the client.
Configuration And Settings	
WLAN Settings	WLAN settings cover configuration settings related to the WLAN connection and authentication. In order to register automatically to the Cisco Unified Communications System a user has to allow the mobile device to scan available WLANs.
SCCP Profile Settings	SCCP profiles include settings for Cisco Unified Communications Manager and Unified Communications Manager Express. Available settings are profile name, access point, TFTP server, own number and registration.
Support for TFTP	Nokia Intellisync Call Connect can use trivial file transfer protocol for (TFTP) to retrieve configuration files.
Default Call Type	Default call type enables a user to select a preference for business calls to (VoIP) or personal calls (cellular).
Call Divert	Call divert is also known as call forwarding. When call divert is activated, all inbound calls will be diverted to the user specified number. A user can activate and cancel the call divert function using Nokia Intellisync Call Connect.
OMA Device Management	Nokia Intellisync Call Connect supports Open Mobile Alliance Specification on Device Management (OMA DM). This enables use of OMA DM compliant device management servers to configure and update the application settings over-the-air.

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