

Nokia 9300 Configuring connection settings

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Contents

Introduction	4
Creating Internet connections	5
GPRS settings	
IP passthrough settings	
GSM data settings	
Configuring Internet connection settings	12
Selecting an Internet access point	
Activating IP passthrough	14
Configuring text messages (SMS)	15
Configuring multimedia messages	
(MMS)	17
Creating an e-mail account	19
Configuring voice mailbox	
(network service)	22
(incertor & service) illiminimi	22

Introduction

This document is a support guide for the configuration of Internet settings needed to use the Nokia 9300 for data connections.

To access the Internet (in order to use WWW or mail), the following conditions must exist:

- The cellular network (GSM 900/1800/1900) you use must support data calls.
- The data service (also the high-speed HSCSD service if used) must be activated for your SIM card.
- You must have obtained an Internet access point (IAP) from an Internet service provider.
- Proper Internet settings must have been configured in your Nokia 9300.

For information about the correct settings, contact your Internet service provider or system administrator. The service provider may be able to configure the access point for you using a special SMS message or WWW page, which sets up all the necessary Internet access settings. Please contact your Internet service provider (ISP) for details.

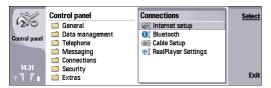
The necessary settings for Internet configuration are provided by your Internet Service Provider. If your Internet settings are incomplete or incorrect, please contact your

service provider. Depending on your ISP or network operator, you may not need to fill in all of the settings.

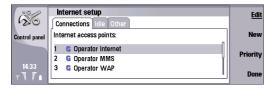
When you insert a SIM card, the device will read the necessary GPRS, MMS, and SMSC settings from the SIM card if they are available, and no manual configuration is necessary. Note that this may not work with all operators and SIM cards.

Creating Internet connections

♦ Select Desk→ Tools→ Control Panel→ Connections→ Internet setup.



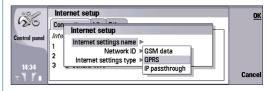
1 The list of existing IAP's is shown. Press New to create a new Internet access point.



If IAP's are already available, the setup asks if you want to use an existing access point as a basis for the new one.

- 2 In the *Internet setup* dialog, define the following:
 - Internet settings name Type a name for the Internet access point.
 - Network ID Select the network ID according to the destination network you want to access with the Internet access point. You can rename and create

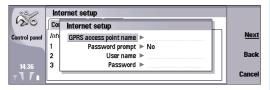
- new network IDs. Using the correct network ID ensures that the data traffic is routed directly to the desired destination network. VPN (virtual private network) software may restrict data traffic for a certain destination network. Network ID can be used to filter Internet access points when establishing an Internet connection.
- Internet settings type Select a connection type (GPRS, GSM data, or IP passthrough). Select IP passthrough to connect your device to a compatible PC and use the Internet or network connection of the PC. Before using the IP passthrough, activate it.
 See "Activating IP passthrough" on page 14.



- 3 Press Next to go forward. Depending on the Internet setting type you selected, turn to one of the following sections in this document:
 - *GPRS* See "GPRS settings" on page 6.
 - IP passthrough See "IP passthrough settings" on page 8.
 - GSM data See "GSM data settings" on page 9.

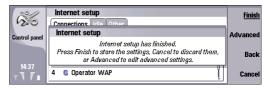
GPRS settings

- 1 If you selected GPRS as Internet settings type, define the following:
 - GPRS accesspoint name Type a name for the GPRS access point. Contact your Internet service provider to obtain this information.
 - Password prompt Select No to generate the password automatically from the settings, or Yes to ask the password always when connected.
 - *User name* Type your user name if required.
 - Password Type your password if required.



In many GPRS connections, only the GPRS accesspoint name is required, and no other settings need to be filled.

2 Press Next. If further settings are required, such as IP configuration or proxy settings, press Advanced to access the advanced settings. If no further settings are required, press Finish, and the GPRS IAP is ready to use.



- 3 In the *IP configuration* page, define the following:
 - Network type Specify the protocol you want to use (IPv4 or IPv6).
 - Auto retrieve IP If you select Yes, the IP address is obtained automatically from the server. This setting is also called dynamic IP address. If you select No, specify the IP address.
 - Auto retrieve DNS If you select Yes, the primary and secondary DNS (domain name server) addresses are obtained automatically from the server. DNS is an Internet service that translates domain names such as www.nokia.com into IPv4 addresses such as 192.100.124.195, or IPv6 addresses like 3ffe:2650:a640:1c2:341:c39:14.
 If you select No, specify the IP addresses for the primary and secondary DNS servers.

 IPv6 DNS mode — Select a mode for the IPv6 DNS (Well known or Manual). If you select Manual, specify the IP addresses for the primary and secondary IPv6 DNS servers.



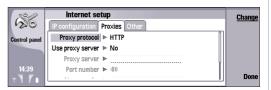
4 Press **Menu** to access the *Proxies* page.

You may want to use a proxy to quicken access to the Internet. Note also that some Internet service providers require the use of Web proxies. Contact your Internet service provider to determine the proxy details. If you have made an Internet connection to your company's intranet, and are unable to retrieve Web pages from the general Internet, you may need to setup a proxy server to retrieve Web pages outside your company's intranet.

Define the following:

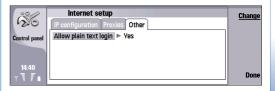
- Proxy protocol Select the protocol type of the proxy. You can set different proxy settings for each protocol (HTTP or HTTPS).
- *Use proxy server* Set to *Yes* to use the proxy server.
- Proxy server Type the IP address or the domain name of the proxy server. For example, domain names are company.com and organisation.org.

- Port number Type the number of the proxy port.
 The port number is related to the protocol. Common values are 8000 and 8080, but vary with every proxy server.
- No proxy for Define the domains for which the HTTP or HTTPS proxy is not needed.



5 Press Menu to access the Other page, and define the following:

Allow plain text login — Select No, if you never want to send your password as plain text without encryption. Note that this option only affects PPP connections; email and Web passwords are not encrypted. Some Internet service providers require that this option is set to Yes.



6 After filling in all the required settings, press **Done** to return to the finish wizard.

7 Press Finish, and the GPRS IAP is ready to use.

IP passthrough settings

1 If you selected IP passthrough as Internet settings type, press Advanced to access the advanced settings. If no further settings are required, press Finish, and IP passthrough IAP is ready to use.



- 2 In the *IP configuration* page, define the following:
 - Auto retrieve IP If you select Yes, the IP address is
 obtained automatically from the server. This setting
 is also called dynamic IP address. If you select No,
 specify the IP address, Subnet mask, and Default
 gateway.
 - Autoretrieve DNS If you select Yes, the primary and secondary DNS (domain name server) addresses are obtained automatically from the server. DNS is an Internet service that translates domain names such as www.nokia.com into IPv4 addresses such as 192.100.124.195, or IPv6 addresses like 3ffe:2650:a640:1c2:341:c39:14.
 If you select No, specify the IP addresses for the primary and secondary DNS servers.

 IPv6 DNS mode — Select a mode for the IPv6 DNS (DHCP, Well known, or Manual). If you select Manual, specify the IP addresses for the primary and secondary IPv6 DNS servers.



- 3 Press Menu to access the Proxies page, and define the following:
 - Proxy protocol Select the protocol type of the proxy. You can set different proxy settings for each protocol (HTTP or HTTPS).
 - *Use proxy server* Set to *Yes* to use the proxy server.
 - Proxy server Type the IP address or the domain name of the proxy server. For example, domain names are company.com and organisation.org.
 - Port number Type the number of the proxy port.
 The port number is related to the protocol. Common values are 8000 and 8080, but vary with every proxy server.

 No proxy for — Define here the domains for which the HTTP or HTTPS proxy is not needed.



- **4** After filling in all the required settings, press **Done** to return to the finish wizard window.
- **5** Press Finish, and the IP passthrough IAP is ready to use.



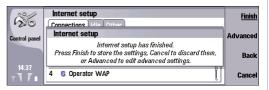
GSM data settings

- 1 If you selected *GSM data* as *Internet settings type*, define the following:
 - Telephone number Type the phone number used to dial in to your Internet service provider.
 - Password prompt Select No to generate the password automatically from the settings, or Yes to always request the password when connected.
 - User name Type your user name if required.

• *Password* — Type your password if required.



2 Press Next. If further settings are required, such as IP configuration or proxy settings, data call speed, script or callback, press Advanced to access the advanced settings. If no further settings are required, press Finish, and the GSM data IAP is ready to use.



- 3 In the *IP* configuration page, define the following:
 - Auto retrieve IP If you select Yes, the IP address is obtained automatically from the server. If you select No, specify the IP address.
 - Auto retrieve DNS If you select Yes, the primary and secondary DNS (domain name server) addresses are obtained automatically from the server. If you select No, specify the IP addresses for the primary and secondary DNS servers.

 IPv6 DNS mode — Select a mode for the IPv6 DNS (Well known or Manual). If you select Manual, specify the IP addresses for the primary and secondary IPv6 DNS servers.



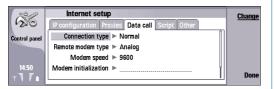
- 4 Press Menu to access the Proxies page, and define the following:
 - Proxy protocol Select the protocol type of the proxy. You can set different proxy settings for each protocol (HTTP or HTTPS).
 - *Use proxy server* Set to *Yes* to use the proxy server.
 - Proxy server Type the IP address or the domain name of the proxy server. For example, domain names are company.com and organisation.org.
 - Port number Type the number of the proxy port.
 The port number is related to the protocol. Common values are 8000 and 8080, but vary with every proxy server.

• No proxy for — Define the domains for which the HTTP or HTTPS proxy is not needed.



- 5 Press Menu to access the Data call page, and define the following:
 - Connection type Define the GSM data call type (Normal or High speed). To use High speed, the service provider must support this feature, and if necessary, activate it for your SIM card.
 - Remote modem type Define whether the device uses an analog or digital connection (Analog, ISDN V.110, or ISDN V.120). This setting depends on both your GSM network operator and Internet service provider, because some GSM networks do not support certain types of ISDN connections. For details, contact your Internet service provider. If ISDN connections are available, they establish connections more quickly than analog methods.
 - Modem speed This option allows you to limit the maximum connection speed. Higher data rates may cost more, depending on the service provider. The speed represents the maximum speed at which your connection will operate. During the connection, the

- operating speed may be less, depending on network conditions.
- Modem initialisation You can control your device using modem AT commands. If required, type characters specified by your service provider.



- **6** Press **Menu** to access the *Script* page, and define the following:
 - Use login script If you select Yes, you can write or import a login script in plain text or Unicode format.
 Edit the script in the Login script field.
 - Show terminal window Select Yes if you want to be able to interact with the terminal server during the login.

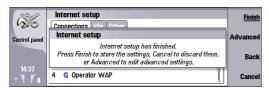


- 7 Press Menu to access the Other page, and define the following:
 - Use callback Select Yes if you have a service that dials back to your phone when you establish an Internet connection.
 - Callback type Contact your Internet service provider for the correct setting (Number, Server number, or Server number (IETF)). Server number refers to the standard Microsoft callback, and Server number (IETF) refers to a callback approved by the Internet Engineering Task Force. Select Number to use a number that you define in the Callback number field.
 - Callback number The data call phone number of your device, which the callback server uses.
 - Allow plain text login Select No, if you never want
 to send your password as plain text without
 encryption. Note that this option only affects PPP
 connections; e-mail and Web passwords are not
 encrypted. Some Internet service providers require
 that this option is set to Yes.
 - Use PPP compression Select Yes to speed up the data transfer, if it is supported by the remote PPP server. If you have problems with establishing a connection, select No.

8 After filling in all the required settings, press **Done** to return to the finish wizard window.

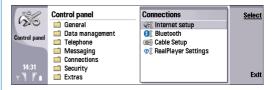


9 Press Finish, and the GSM data IAP is ready to use.



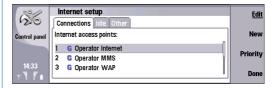
Configuring Internet connection settings

♦ Select Desk→ Tools→ Control Panel→ Connections→ Internet setup.



These settings affect all Internet connections.

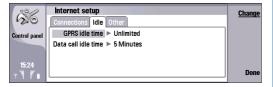
1 In the Connections page, you can change the priority of Internet access points. Press Priority, select an Internet access point, and press Move up or Move down, and finally press Done. When you establish a data connection, the access points are searched for in the order you have specified.



2 Press Menu to access the *Idle* page, and define the following:

GPRS idle time and *Data call idle time* — Define the time period after which the connection ends automatically and returns to the standby mode if not used. You can specify a different time for each connection type, but the setting affects all Internet access points using that connection type.

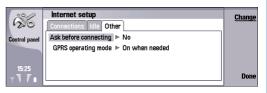
Some Internet connections may appear inactive, but they may still be sending and receiving data in the background. These connections may postpone the closing of the connection.



- **3** Press **Menu** to access the *Other* page, and define the following:
 - Ask before connecting If you select Yes, a dialog appears every time you connect to the Internet, asking you to confirm the connection or to change the Internet access point.
 - GPRS operating mode Select Always on to keep the GPRS connection in alert mode and to switch the packet data transfer on quickly when needed. If you select On when needed, the device uses a GPRS

connection only when you start an application or action that needs it.

Note that if there is no GPRS coverage and you select *Always on*, the device will periodically try to establish a GPRS connection.



4 Press Done.

Selecting an Internet access point

When you establish an Internet connection, you are asked to select the Internet access point you want to use for that connection. In the *Network connection* dialog, select an Internet access point from the list, and press **Connect**. Before connecting, you can filter the list of access points according to the network type. To view all Internet access points, select *All networks*. To view Internet access points that are currently available, press **Show available**.

For example, if you are using the *Offline* profile, no GPRS or GSM Internet access points are shown in the list.

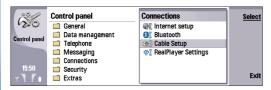


Tip: The *Network connection* dialog opens only if you have selected *Yes* in the *Ask before connecting* field in the general Internet access point settings. To check the status of the setting, select *Desk→ Tools→ Control Panel→ Connections→ Internet setup→ Other* page.

If you have defined *No* in the *Ask before connecting* field in the general Internet access point settings, the device uses the Internet access point that is first in the IAP priority list. If that connection is not available, the device uses the second IAP on the list, and so on. To check and change the IAP priority list, select *Desk Tools Control Panel Connections Internet setup*, and on the *Connections* page, and press *Priority*. See "Configuring Internet connection settings" on page 12.

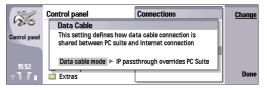
Activating IP passthrough

♦ Select Desk→ Tools→ Control Panel→ Connections→ Cable Setup..



Before you can use IP passthrough connection, you must activate the data cable for IP passthrough.

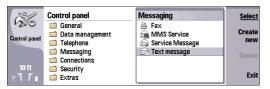
1 In the Data Cable window, define the Data cable mode. Select IP passthrough to always use the data cable for the IP passthrough Internet access point. If you select IP passthrough overrides PC Suite your Nokia PC Suite connection may be terminated if an IP connection is established,



- 2 Press Done and confirm the setting by pressing Save.
- 3 Press Exit to close the Control Panel.

Configuring text messages (SMS)

♦ Select Desk→ Tools→ Control Panel→ Messaging→ Text message.





Note: Before you can send and receive text messages, the following conditions must exist:

- The phone must be turned on.
- The network you are using must support the text message service.
- The text message service must be activated for your SIM card.
- The text message settings must be defined.

To edit service centers, do the following:

- 1 In the Text message settings view, press Service centres → New to add a new service center; or select an existing service center and press Edit. To delete an existing service center, select it and press Delete.
- 2 In the New service centre page, enter a Service centre name and Service center number. Contact your service

provider for these settings. When you are done, press OK.



3 Press Close to return to the Text message settings view.

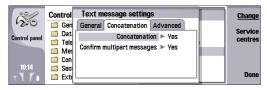
To edit text message settings, do the following:

- 1 On the *General* page, define the following:
 - Service centre in use Select the message you want to deliver your text messages.
 - *Delivery report* Select *Yes* if you want to view the status of sent messages in the Log.
 - Send text message Select when to send text messages. If you select Upon request, select a message in Outbox and press Send to send it.

 Validity period — Select for how long the message center stores messages if a recipient cannot be reached.

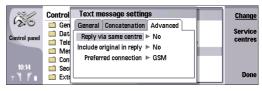


- 2 Press Menu to access the *Concatenation* page, and define the following:
 - Concatenation Select Yes to send text messages exceeding 160 characters as a single message to other devices.
 - Confirm multipart messages Select Yes to see a confirmation note when you send text messages that exceed 160 characters.



- **3** Press **Menu** to access the *Advanced* page, and define the following:
 - Reply via same centre Select Yes to set the recipient's reply messages to use the same message center you are using. Note that this setting may not

- work if you and your recipient are using different operators. Select *No* to set the recipient replies to go through the message center defined in the recipient's device.
- Include original in reply Select Yes to copy the text of the received message to your reply.
- Preferred connection Select the connection to use for sending text messages (GSM or GPRS). Note that the messages are automatically sent using GPRS if it is available, and using GSM if GPRS is not available.



4 Press Done to return to the *Messaging* view, then Exit to close the *Control panel*.

Configuring multimedia messages (MMS)

♦ Select Desk→ Tools→ Control Panel→ Messaging→ Multimedia message.



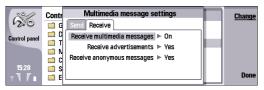
- 1 In the *Send* page, define the following:
 - Internet access Select the Internet access point (IAP) connection you want to use for sending messages.
 - Homepage Type the address of the multimedia messaging center.
 - Receive report Select whether you want to receive
 a notification when the message has been
 successfully delivered to the recipient. Receiving a
 delivery report of a multimedia message that has
 been sent to an e-mail address may not be possible.
 - Sending time Select when you want the multimedia message to be sent. If you select *Upon request*, select a message in *Outbox* and press **Send** to send it.
 - Validity period Select how long the messaging center tries to send the message. If the recipient of a message cannot be reached within the validity period, the message is removed from the multimedia

messaging center. *Maximum* is the maximum amount of time allowed by the network. Note that the network must support this feature.



- 2 Press Menu to access the Receive page, and define the following:
 - Receive multimedia messages Select On if you want to receive multimedia messages. The reception of multimedia messages is on by default. Select Deferred if you want the multimedia messaging center to save the messages to be retrieved later. Change this setting to On when you want to retrieve the messages. Select Reject if you want to reject multimedia messages. The multimedia messaging center will delete the messages.
 - Receive advertisements Select whether you want to receive messages defined as advertisements.

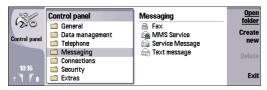
Receive anonymous messages — Select whether you want to receive messages from unknown senders.



3 Press Done to return to the Messaging view, then Exit.

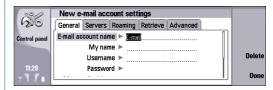
Creating an e-mail account

 \Longrightarrow Select Desk \to Tools \to Control Panel \to Messaging.



- 1 In the *Messaging* view, press Create new.
- 2 Select the account type and press OK.
- 3 In the *General* page, define the following:
 - E-mail account name Type a descriptive name for the connection. Note that the name can be 25 characters long.
 - My name Type your name.
 - Username Type your user name, given to you by your service provider.
 - Password Type your password. If you leave this field blank, you will be prompted for a password when you try to connect to your remote mailbox.
 - My e-mail address Type the e-mail address given to you by your service provider. The address must contain the @ character. Replies to your messages are sent to this address.
 - Internet access Select the Internet access point that you want to use.

• Default account — If you have created several e-mail accounts, select the e-mail account you want to use as the default account.

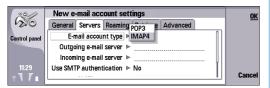


- 4 Press Menu to access the Servers page, and define the following:
 - *E-mail account type* Select the e-mail protocol your remote mailbox service provider recommends. Note that this setting can be selected only once and cannot be changed if you have saved or exited from the mailbox settings.



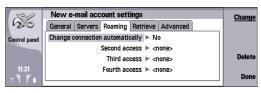
Tip: POP3 is a version of post office protocol, a standard protocol for receiving e-mail from your remote server. With POP3, you can check your remote mailbox and download your e-mail. IMAP4 is a version of Internet Message Access Protocol, a standard protocol for accessing e-mail on your remote server. With IMAP4, you can conduct searches, create, delete, and manage messages and folders on the server.

- Outgoing e-mail server Type the IP address or host name of the computer that sends your e-mail.
- Incoming mail server Type the IP address or host name of the computer that receives your e-mail.
- Use SMTP authentication Select whether the SMTP (simple mail transfer protocol) server requires authentication, and type the SMTP user name and password.



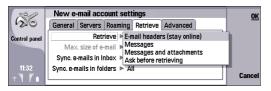
- 5 Press Menu to access the *Roaming* page, and define the following:
 - Change connection automatically Select whether you want the device to switch between connections automatically if connection to the primary Internet access point is lost.

Second access, Third access, and Fourth access —
Define the other possible Internet access options.
Select an access and press Define.



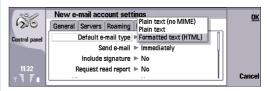
- **6** Press **Menu** to access the *Retrieve* page, and define the following:
 - Retrieve Select whether you want to retrieve only the e-mail header information such as sender, subject and date, emails, or e-mails with their attachments, or whether you want the device to ask this before retrieving.
 - Max.. size of e-mail Define how large e-mails are retrieved to your device. Note that this setting is not available if you have defined Mail headers (stay online) in the Retrieve setting.
 - Sync. e-mails in Inbox Select the number of e-mails you want to download from the remote server to your Inbox.

 Sync.e-mails in folders — Select the number of e-mails you want to download from the remote server to your folders.



- 7 Press Menu to access the Advanced page, and define the following:
 - Default e-mail type Select whether to send e-mail as Plain text, Plain text (no MIME) if the receiving email system cannot display e-mail sent in the regular Internet format, or Formatted text (HTML) to be able to use enhanced text formatting options.
 - Send e-mail Select Immediately to send the e-mail
 as soon as possible, During next connection to send it
 the next time you retrieve e-mail, or Upon request to
 store the e-mail in the Outbox, from which you can
 send it later.
 - Include signature Select whether you want to use a signature. Select Use my contact card to use the contact card in the device, or Custom to use a signature file that you can create for the e-mail account.
 - Request read report Select whether you want to receive a note when the recipient has opened your email.

- Allow report requests Select whether you want the sender of the e-mail to receive a note that you have read the e-mail.
- Copy to my e-mail address Select whether you want to receive a copy of every e-mail you send.
- Incoming secure connection Select whether you
 want the incoming connection to be secure (TLS or
 SSI). Note that your service provider must support
 this feature.
- Outgoing secure connection Select whether you
 want the outgoing connection to be secure (TLS or
 SSL). Note that your service provider must support
 this feature.
- IMAP4 folder path Type the path to the IMAP4 inbox location in case the server cannot open it automatically. Normally you do not need to define the path.



8 Press Done to return to the Messaging view, then Exit. To edit an existing account, select the account type that you want to edit, and press Select.

Configuring voice mailbox (network service)

→ Press Telephone → Voice mailbox; or press Telephone → Menu → Settings → Voice mailboxes.

Before you can use your voice mailbox, the following conditions must exist:

- The phone must be turned on.
- You must have obtained a voice mailbox number from your service provider.
- The voice mailbox settings must be defined.
- 1 In the Voice mailbox view, define the following:
 - Number Enter the phone number of your voice mailbox. Contact your service provider for this setting.
 - DTMF Enter a DTMF tone sequence to use with the voice mailbox. Contact your service provider for this setting.
- 2 Press OK.

