

Remote Configuration Guide

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1. Introduction

This document shows how the Nokia 9210 Communicator can be configured remotely using Symbian's Bearer Independent Object (BIO) messaging. Remote configuration helps the end user to get the most of the device as quickly as possible. Complex settings, such as Internet settings, can be 'pushed' to the device by the operator or the help desk of an Internet service provider or a corporate IT department.

The configuration messages are sent to the Nokia 9210 Communicator using the GSM Short Message Service (SMS). For maximising the compatibility and minimising the transition period for help desks, the BIO messaging support of the Nokia 9210 Communicator is similar to Nokia Smart Messaging, which is supported by earlier Nokia communicators. The development of the Symbian platform may introduce new BIO message types in the future that leverage the new features of the Nokia 9210 Communicator and the EPOC operating system. WAP settings can be configured using OTA (over-the-air) configuration syntax.

2. Further Information and Support

The supported message syntax is based on *Smart Messaging Specification 3.0.0*, Nokia Mobile Phones, 2000. The document is available from the Forum Nokia Web site at <http://www.forum.nokia.com/>, Smart Messaging section.

The syntax for WAP settings is based on the WAP Over-the-air settings specification, available from the Forum Nokia Web site at <http://www.forum.nokia.com/>, Smart Messaging section.

For details on what the Internet settings mean, please refer to the *Setting Up Dial-In Service* document in the Nokia 9210 Communicator launch manual.

3. Creating Configuration Messages

The creation and syntax of Smart Messaging-type configuration messages is specified in the Smart Messaging specification. That document contains the details on how the messages should be created and sent.

The following sections list the deviations from that specification.

3.1 Configuration Over SMS Only

At the moment, the only way to transfer a configuration message to the Nokia 9210 Communicator is over the GSM Short Message Service. Transferring the configuration messages over HTTP (on the Web) or as e-mail attachments is not supported yet.

The Nokia 9210 Communicator is a WAP device and as such all smart messages should be sent to WDP ports, as specified in the Smart Messaging specification. If this is not possible, keyword headers (also known as compatibility headers) can also be used. NBS port numbers, on the other hand, should not be used.

3.2 Non-Supported Feature Sets

Some of the following feature sets were specified in older versions of the Smart Messaging document. They are listed for the sake of completeness.

- TTML (Tagged Text Markup Language) is considered as deprecated. WAP and WML have replaced TTML. The Nokia 9210 Communicator does not support TTML.
- DMCP (Dynamic Menu Control Protocol) is not supported by the Nokia 9210 Communicator. The majority of features are activated on the PDA side of the communicator, and therefore dynamic menus on the phone side are not supported.
- Service cards are not supported. Service card functionality can be used with normal business cards that have a phone number field for each service. To converge with the *de facto* standards, the Nokia 9210 Communicator supports the vCard business card format, which can be used for this purpose.
- Extended Configuration Syntax is not supported at the moment, expect for the Short Message Centre number setting.

3.3 Further Deviations

- The Notify text field in the basic Internet configuration message is now optional, not mandatory. Hence, the first line of the definition now reads:

```
<iap-message> ::= [<iap-compatibility-header>] [<notify-text>] <info-body>
```

- The script version in Internet configuration settings is not used in the Nokia 9210 Communicator.