

Remote Configuration Guide

TABLE OF CONTENTS

1.	Introduction.....	3
2.	Further Information and Support.....	3
3.	Creating Configuration Messages.....	3
3.1	Configuration Over SMS Only	3
3.2	Non-Supported Feature Sets.....	3
3.3	Further Deviations.....	4

Legal Notice

Copyright © Nokia Mobile Phones 2001. All rights reserved.

Reproduction, transfer, distribution or storage of part or all of the contents in this document in any form without the prior written permission of Nokia is prohibited.

Nokia and Nokia Connecting People are registered trademarks of Nokia Corporation. Other product and company names mentioned herein may be trademarks or tradenames of their respective owners.

Nokia operates a policy of continuous development. Nokia reserves the right to make changes and improvements to any of the products described in this document without prior notice.

Under no circumstances shall Nokia be responsible for any loss of data or income or any special, incidental, consequential or indirect damages howsoever caused.

The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, are made in relation to the accuracy, reliability or contents of this document. Nokia reserves the right to revise this document or withdraw it at any time without prior notice.

The availability of particular products may vary by region. Please check with the Nokia dealer nearest to you.

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 (see section 4). 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 and script data fields in Internet configuration settings are not used in the Nokia 9210 Communicator.