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Nokia MP NG Customization Guideline

Version  
2013/01

# Nokia Mobile Phones NG

## Customization Guideline

Table 1 List of addressed device models:

Product		
Aqua_DS_EU (RM-902)		
Aqua_SS_EU (RM-899)		
Aqua_SS_US (RM-900)		

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Product	Rel1
Aqua_DS_EU (RM-902)	PR Draft
Aqua_SS_EU (RM-899)	PR Draft
Aqua_SS_US (RM-900)	PR Draft

## 1. INTRODUCTION AND SUMMARY

### 1.1 Document purpose

This document describes the customization offering for creating country or operator variants specific local products, and provides up-to-date product specific customization guidelines for all products based on NG EVO platform. This document is classified confidential as defined by Nokia product information handling policy as the guideline contains product information and images of unreleased products. Therefore the information covered in this document can be discussed with external customers only under sufficient Non-Disclosure Agreement (NDA). The structure of this document is aligned with the structure of Nuage tool user interface to make it easier to find relevant guidance while creating the variant.

### 1.2 Using this document

This document describes customization capabilities of S40 EVO SW platform NG1.0. For more information pls contact sales support team at [Variant-Support \(RES/Global\)](#) or S40 SW Customization contact ( [mathan.mani@nokia.com](mailto:mathan.mani@nokia.com) ). For customization that is not available in this guidelines, MPRD request must be approved before it can be included in Product Customization guideline and implemented. More information about it at as Market Request harmonisation for sales in [link](#) . Default settings mentioned in documented are from platform level and might vary according to NDT level settings, please check product NDT default setting documents.

## 2. CONNECTIVITY

### 2.1 Bluetooth Settings

#### 2.1.1 Bluetooth visibility

Bluetooth visibility to other devices can be set to hidden or visible.  
Available value: Visible , Hidden

#### 2.1.2 Device name

Device bluetooth name is used to identify the device when bluetooth is on. Max length of the name is 23 characters.

Available value: Maximum character length is 23.

## 2.2 Configuration Sets

### 2.2.1 Summary

Phones are designed to automatically configure OMA settings based on the SIM card (network operator code and network country code and service provider name) information and setting files maintained by Nokia. It is possible to override the settings for specific MCC, MNC, SPN codes but the default settings for other SIM cards will stay in the device. Overriding the settings can be done by configuring the settings from the Nuage UI. When creating a Multivariant and all the Single variants are sharing the same OMA settings, the Configuration Sets can be configured into the Fallback variant only. The settings can be configured into each of the single variants as well.

Process to update default CC setting files:

<https://in.nokia.com/sites/MPSWBJIRS/BJIRCS/SitePages/CommonCcCollection.aspx>

### 2.2.2 Configuration Set (Operator Data Settings)

Create the configuration sets before configuring the access points.

One or more MCC/MNC specific configuration sets may be created. The configuration sets can be used to limit the operation of Network and WLAN access points. The configuration sets are also referred as CC settings.

Available settings:

Configuration Set Name ( Mandatory )

Service provider name ( Mandatory )

Mobile Country Code ( Mandatory )

Mobile Network Codes

Provisioning URL

Restrict rights

### 2.2.3 Connection settings for Packet data and WLAN

#### Packet Data Access Points

Access Point Name ( Mandatory )

Primary Name Server

Secondary Name Server

Use for general internet access

Use for general S40 application rule

Authentication Type

User Name

Password

GPRS Access Point ( Mandatory )

Proxy address

Proxy port

Proxy push

WLAN Access Points

Access Point Name ( Mandatory )

Proxy address

Proxy port

Proxy push

Primary Name Server

Secondary Name Server

Use for general internet access

Authentication Type

Primary SSID

Primary Used SSID

Primary SSID hidden

Secondary SSID

Secondary Used SSID

Security Mode

WLAN Handover

Edit Settings

View Settings

Forward Settings

WEP Key Index

WEP Authentication Mode

WEP Key1 Length

WEP Key2 Length

WEP Key3 Length

WEP Key4 Length

WEP Key1

WEP Key2

WEP Key3

WEP Key4

Pre-shared key type

Pre-shared key

#### 2.2.4 Connection settings for Streaming

Each streaming connection configuration must be bound to both a defined Configuration Set and a GPRS/WLAN Access point, defined in the configuration settings above.

The streaming settings define the connection parameters for connecting to a streaming server.

Following values needs to added :

Access Point Name ( Mandatory )

Packet Data / WLAN Access Point ( Mandatory )

Enable Wlan Access for streaming

Min UDP Port Number

Max UDP Port Number

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**2.2.5 Connection settings for MMS**

Each MMS connection configuration must be bound to both a defined Configuration Set and a GPRS/WLAN Access point, defined in the configuration settings above.

MMS Connection Settings define a link to and an access setting for different MMS gateways on the internet. The settings are almost identical to WAP settings, only more limited. The MMS connection settings are empty in all standard transceivers. Multimedia Messaging Services require TCP/IP support in the networks

Following values needs to added :

Access Point Name ( Mandatory )

Packet Data / WLAN Access Point ( Mandatory )

MMS Homepage

**2.2.6 Connection settings for WAP**

Each WAP connection configuration must be bound to both a defined Configuration Set and a GPRS/WLAN Access point, defined in the configuration settings above.

This setting is needed to allow applications that use the WAP AP to function correctly in the operators

Following values needs to added :

Access Point Name (Mandatory)

Packet Data / WLAN Access Point (Mandatory)

Enable Wlan Access for Browser

WAP Homepage

**2.3 USB Settings****2.3.1 USB**

Setting preferred USB mode. Cannot be changed by end user.

Available value: none(Always ask),usb-charging ,modem, mass storage.

**3. CALLING AND CONTACTS****3.1 Calling Network Settings****3.1.1 FDN based control of GPRS**

When disabled, GPRS MO connections are allowed even if FDN is enabled on in SIM.

When enabled, GPRS MO connections are blocked if FDN is enabled in SIM card.

NOTE: Fixed Dialing Number (FDN) is a service mode of a GSM phone's Subscriber Identity Module (SIM) card

Available value: Enable, Disable



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## 3.1.2 GSM( A5/1 - A5/7) ciphering algorithms support

GSM( A5/1 - A5/7) ciphering algorithms support:

A5/1 algorithm

Default value: True

A5/2 algorithm

Default value: False

A5/3 algorithm

Default value: True

## 3.1.3 No SMS center number checking when FDN

Bypassing of SMS center number checking when Fixed Dialing Number feature is activated. Only destination number will be checked.

When Selected : SMS server does not perform SMSC number checking during FDN check.

When Unselected : SMS server does SMSC number check as part of FDN check.

Available value : Selected, Unselected

## 3.1.4 Support for wide-band AMR speech

Support for wide-band AMR speech in 2G network

## 3.1.5 Supported GEA encryption algorithms

Support for GPRS (GEA1 - GEA7) encryption algorithms:

GPRS GEA1 algorithm

Default value: True

GPRS GEA2 algorithm

Default value: True

GPRS GEA3 algorithm

Default value: True

GPRS GEA4 algorithm

Default value: False

GPRS GEA5 algorithm

Default value: False

GPRS GEA6 algorithm

Default value: False

GPRS GEA7 algorithm

Default value: False

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**3.1.6 GSM L2 Fill Bit Randomization**

The device supports receiving of random L2 fill bits and fill frames. GSM L2 (LAPDm protocol) needs to perform fill bits randomization for certain frame types.

Enabled : L2 fills random numbers as spare bits for certain frame types.

Disabled : L2 fills 0x2B as spare bits.

Available value : Enabled/Disabled

**3.1.7 Source for Service Provider Name**

Device should use Service Provider Name from SIM or device should display Service Provider Name from network.

Available options: SIM, Network

**3.2 Contact Settings****3.2.1 Phonebook Calling line Identification**

Phonebook CLI -Used to determine if the closest matching name field takes precedence for an incoming/outcoming call if more than one matching number is stored in the phonebook.

- CLI matching should use best number matching algorithm
- CLI should support receive both alpha and numeric from network
- If there is a matching name in the phonebook then the name in the phonebook should be presented
- User should be able to see both number and name (For 1st call and also a waiting call)
- CLI number matching "0" in the beginning for UAE, Saudi, Kuwait and Egypt markets
- CLI number matching should be 11 digits for China, Indonesia, Malaysia, Korea
- CLI number matching should be 7 digits for Philippines, SEAP
- CLI number matching should be 9 digits for Thailand, New zealand, Australia
- CLI number matching should be 8 digits for Vietnam, Hong Kong, Taiwan, Singapore
- CLI number matching should be 10 digits for India

**3.2.2 Phonebook ADN before PD CLI matching**

Prioritize SIM contacts (ADN) over phone memory contacts (PD) when matching and identical numbers found on both.

Available value: Enable ,Disable

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### 3.2.3 Phonebook SDN CLI matching

When matching a Call Line Identifier to a phonebook entry, this will enable records stored in the Service Numbers List in SIM card to be checked for matches. Matches from ADN, PD and FDN are given priority over SDN.

Available value: Enable/Disable

### 3.2.4 Intelligent digits CLI matching

Intelligent digits CLI matching indicates that the normal matching algorithm is extended to include extra preceding digit, zero (0) allowing a greater accuracy of matched CLI numbers.

Available value: Enable, Disable

### 3.2.5 Star support in number matching

Enable star (\*) support in number matching (When dialing "123" phone displays "Emergency number" ( if 123 is defined as emergency number). If voice mail number is set as "\*123" phone displays "Voicemail box").

Available value: Enable, Disable.

### 3.2.6 CPHS/CPS Common PCN handset support

Customer Service Profile (CSP) setting in SIM enables operator to define which phone menus/options are visible to the end user. CSP is part of the Common PCH Handset Support (CPHS).

Available Value : Enable,disable

## 3.3 Emergency Calls

### 3.3.1 Initiating an Emergency Call

The following numbers will be recognized as emergency call numbers by default and will be used in the emergency call setup procedure.

When a SIM containing stored emergency numbers is present:

112, 911 + additional numbers stored on SIM

If no valid SIM/USIM is inserted into ME/UE:

- 000, 08, 112, 110, 118, 119, 911 and 999

It is possible to add up to 5 additional emergency numbers in production and when a SIM card is present numbers can be downloaded also by the network.

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This number will be used as the voice mail number. This setting will override any other voice mail number.

**3.5 Other call Settings****3.5.1 AMX Clear Codes Support**

Clear Code feature is used to display the error code in case that happens during the call release phase.

Select to use the custom AMX clear code messages.

Available value : Enable, Disable

**3.5.2 Two digit dialing**

With 2-digit dialing, the user is able to make voice calls to 2-digit phone numbers. When 2-digit dialing is requested, general and call-concerned supplementary services are not in use for the 2-digit numbers.

Available value : Enable, Disable

**4. MESSAGING****4.1 SMS Settings****4.1.1 Message center number locked**

When setting is true end-user cannot edit message center number. When setting is false, end-user can edit message center number.

Available value: Enable, Disable

**4.1.2 Delivery reports**

Indicates SMS (text message) Delivery Report ON/OFF. Own setting available for SIM1 and SIM2.

Available value: Enable, Disable

**4.1.3 Timestamp type to be used in messaging**

Selection for device time stamp for mobile terminated SMS.

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Available value:  
Message binary  
Phone local time

**4.2 MMS Settings****4.2.1 Request MMS Delivery Report**

Indicates MMS Delivery Report ON/OFF. There is own settings available for SIM1 and SIM2  
Available value: Enable, Disable

**4.2.2 Maximum size for received MMS message**

The maximum size of MMS that can be received can be set to a preconfigured reduced level.  
This is used when the network limits the size of messages. The sent message size will be automatically adjusted according to detected message header size.

Available value:

100k  
300k  
600k

**4.2.3 MMS Retrieval mode**

MMS retrieval options can be customized for  
SIM 1 and SIM 2

Deferred =0

Automatically download MMS=1

Download if not roaming =2

Available value: 0,1,2(Drop down box in  
Nuage)

**4.2.4 Allowing MMS Adverts**

Allow Adverts for both SIM 1 and SIM 2 separately : true allows, false disallows adverts.

Available value: Enable, Disable

**4.2.5 Postfix for the markup version of User Agent**

UA product version postfix for the markup version of user agent and UA header with Model Name and format .

Available value:

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Cell broadcast reception Enable/Disable.  
Available value: Enable, disable

**5. APPLICATIONS AND CONTENT****5.1 Customer Folders****5.1.1 Customer Folders for Application List and Browser**

Customer folders can be configured for the Application List and/or for the Browser app. Only bookmarks may be placed in the customer folders.

**5.2 Preloaded Media****5.2.1 Graphic Files**

Operator graphics files can be added in variants either to phone memory. Those files can be set to read-only mode. We recommend to keep available phone memory to customer from 20-30MB.

**5.2.2 Music Files**

Operator Music can be added in variants in phone memory. Set attribute so that user not able to delete files. We recommend to keep available phone memory to customer from 20-30MB.

**5.2.3 Tone Files**

Operator tone files can be added in variants in phone memory. Set attribute so that user not able to delete files. We recommend to keep available phone memory to customer from 20-30MB.

**5.2.4 Video Files**

Operator video files can be added in variants in phone memory. Set attribute so that user not able to delete files. We recommend to keep available phone memory to customer from 20-30MB.

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Support of operator preloaded applications in phone memory. We recommend to keep available phone memory to customer from 20-30MB.

**5.3.2 Removing/hiding specific applications**

3rd party applications can be removed/hidden with MPRD request. Nokia default application like Contacts, Browser, Maps, Gallery, Music player, Nokia Store cannot be removed. Nokia applications cannot be replaced with 3rd party implementation.

**5.4 Bookmarks****5.4.1 Operators specific bookmark**

Bookmarks can be displayed in the main menu and in the browser app. Two bookmarks may be placed on the browser start page under the top-level Nokia bookmarks, and 28 bookmarks in the customer folders. Policy restrictions for the bookmark count in Application List apply. If customer folders are required for either the main menu or the browser, the folders need to be configured before configuring the bookmarks.

**5.5 Preloaded Certificates****5.5.1 Wap certificates**

WAP certificates are added into the terminal at production. Operators can select which of its preloaded certificates should be activated on the device variant.

**5.5.2 Customer Certificates**

Support of adding Operator certificates which are available in SVN pool during variant creation.

**5.6 Browser Settings****5.6.1 Whitelisting of Operators URL**

Whitelisting of operator specific URL will be added by server not in Nuage, please refer the link <http://wikis.in.nokia.com/NokiaBrowser/WhitelistProcess>

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Following items are offered for DAC

- a) Nokia Service Promotion Screen – The Channel partner can change the Service Promotion to other one offered by Nokia in the Variant (e.g. E-Mail, Nokia Store, Maps, Nokia Life Tools) or disable it (No Service) Optional Nokia.
- b) Account creation – user is able to create the Nokia Account during the first use flow or Skip it. Channel Partner can deactivate the optional Nokia Account creation during the first use flow.
- c) My Nokia-Auto Start (To enable this we need approval from Wang Min.3 (Nokia-SM/Espoo) )

**6. USER INTERFACE****6.1 Graphic UI Settings****6.1.1 Wallpaper for lock screen**

Operator wallpapers from MMC or phone memory can be set as default lock screen wallpaper. End user can change the wallpaper. Wallpaper is a static image. SVG content (screensavers, livingwallpapers etc.) are not supported.

File format supported : PNG, .JPEG, .BMP

Screen size is 320x240

**6.1.2 Operator Startup Graphic**

Operator graphics can be included as static image

Resolution for Aqua is :

Resolution for operator logo text is WxH in pixels



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The whole transition and startup graphics on Aqua has black color background and hence Nokia strongly recommends that Operator graphics should also be situated on black color background as well to allow for the most optimal visual effect. Operator graphics should ideally contain only Operator logo centered on screen and roughly 19x19mm in size. If really needed and in order to minimize startup time, it is recommended that the amount of text that comes with the static Operator graphics should be reduced so that reading time could be reduced. The duration of the Operator graphics is currently set at 3 seconds.

### 6.1.3 Application View Menu customization

10 first applications should always remain the same, in the same order, i.e. no customization is offered. After the first 10 on the list, the rest can be organized and new apps added freely.

## 6.2 Profile Settings

### 6.2.1 Ringtone

Preloaded operators tones can be set to Ringing Tone for both SIM cards.

### 6.2.2 Message tone

Preloaded operator tones can be set to Messagetone.

### 6.2.3 Alarm tone

Preloaded operator tones can be set to Alarmtone.

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**6.2.4 Alert tone**

Preloaded operator tones can be set to Alerttone.

**6.2.5 Notification tone**

Preloaded operator tones can be set to Notification tone.

**6.2.6 Email receive tone**

Email alert tone and file can be customizable.

Available value: True, False

**6.3 Language Settings****6.3.1 Suggested display language**

One of the languages in the device can be selected as the default display language. The default display language is suggested to the end user in case the language information from the SIM card is not available.

**6.3.2 Read Suggested display language from SIM**

When this setting is enabled the device first reads the language information from SIM card and suggests that to the end user. In case the language information read from SIM is not present in the device then the "Default display language" is suggested to the end user. When this setting is disabled the device suggests the "Default display language" to the end user.

**6.4 Time and Date Settings****6.4.1 Date format**

Offering to modify real date format accordingly Channel partner requirements

It is also possible to over-ride this and have the setting automatically set to

Available value :

Year	Month	Day	Separator
YYYY	MM	DD	-
YY	MMM		/

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Toggle time format between 12 / 24h clock  
Available values: 12(True), 24(False)

**6.4.3 Network Identity and Time Zone (NITZ)**

When "Network Operator Time (NITZ)" is enabled the device fetches time and date from network.  
Available values: Enable, disable

**7. VARIANT MANAGEMENT****7.1 Multivariant****7.1.1 Summary**

The Product supports Dynamic Installation of Variants (aka Multivariant). <Check reserved amount of memory for Multi-variant support/TBU > XX MB in order to support Multivariant for a Operator . The reserved memory is used to store all content for all relevant operator variants pre-loaded on the phone. After first device boot with Channel Partner SIM card and successful installation of the relevant Variant the remaining unused Variant content is kept for future usage. Multivariant is supported for single and dual sim products. Installation of variant is done based on SIM slot 1 (located under battery). Customization is same for single and multivariant.  
<http://wikis.in.nokia.com/Multivariants>

**7.1.2 Fallback variant for Multivariant**

One and only one of the single variants selected into the Multivariant configuration has to be selected as the fallback variant. The fallback variant configuration is applied when there is no SIM card present or when the MCC, MNC and SPN combination is not matching with any of the variants within the multivariant.

**7.1.3 Relevant MNC-MCC-SPN pairs**

The combination of MCC, MNC and optionally SPN is used to match the variant with information read from SIM card. There can be several Mobile Network codes defined for one Single variant.

**7.1.4 Lock to first variant installed**

Enable this setting to lock the device to the first installed variant. Further multivariant recognition will be disabled regardless of SIM card changes. The content of unused variants will remain on the device

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regardless of this setting.

**7.2 Simlock****7.2.1 Operator Level SIM Lock**

During variant creation we can support :Adding of operator SIMLock ,Unlock by keypad, Unlock by cable, SIM Lock version, Open SIM lock file

**8. SALES PACKAGE, ACCESSORIES AND USER GUIDANCE (PRODUCT SPECIFIC GUIDANCE)****8.1 Aqua****8.1.1 Sales package**

To be added once we final version of sales package.

**9. HW CO-LABELING AND DECORATIONS (PRODUCT SPECIFIC GUIDANCE)****9.1 Aqua****9.1.1 Co-label**

The placement and alignment of the logo can be seen from attachment below.



AQUA\_CB\_Back\_v02\_  
ms.pdf

**10. ACRONYMS****10.1 Acronyms**

NG - Next Generations.  
MPRD - Mobile Phone Request Development.  
NDT - Nokia Device Terminal  
USB- Universal Serial Bus  
OMA - Open Mobile Alliance  
SIM - Subscriber identity module  
MCC - Mobile country codes  
MNC- Mobile network code  
URL - Uniform resource locator  
GPRS - General Packet Radio Service  
WLAN - wireless local area network  
SSID - Service set identification

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Nokia MP NG Customization Guideline

WEPI - Wired Equivalent Privacy  
UDP - User Datagram Protocol  
MMS - Multimedia Messaging Service  
WAP - Wireless Application Protocol  
TCP/IP - Transmission Control Protocol/Internet Protocol  
AP - Access point  
FDN - Fixed Dialing Number  
GSM - Global System for Mobile Communications  
SMS - Short Messaging Service  
AMR - Adaptive Multi-Rate  
GEA - GPRS Encryption Algorithm  
CLI - Call line Identification  
ADN - Abbreviated Dialing Numbers  
PD - Numbers from the Phone Memory  
SDN - service dialing number  
CPHS/ONS - Common PCN Handset Specification  
NITZ Network Identity and Time Zone  
PCN - Personal communications network  
ME - Mobile Entity  
UA - User Agent  
USSD - Unstructured Supplementary Service Data  
FOTA - Firmware Over-the-Air

Changes after the latest release

New or updated topic	Summary
Initial release	