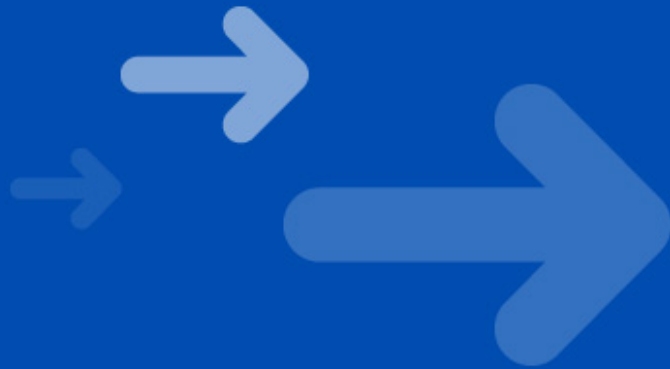


OMA DM Client Provisioning: Settings UI Concept For Nokia 3220

Version 1.0; September 14, 2004



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Settings - UI Concept of the Nokia 3220

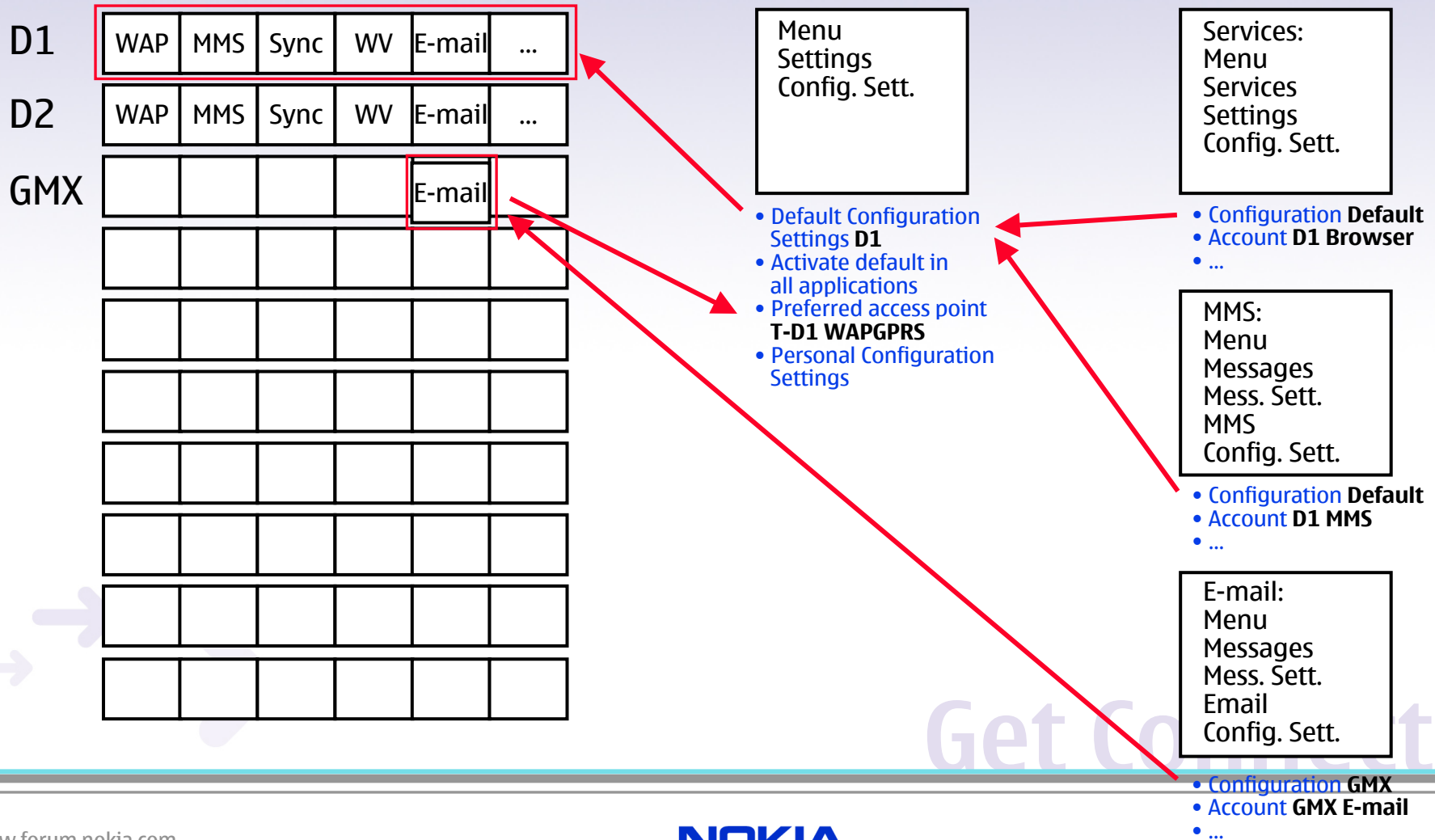
- In order to be fully compliant with OMA Client Provisioning version 1.1, the settings handling and storage has totally changed in Series 40 devices from the Nokia 3220 onwards.
- A Management Tree is introduced as a central storing place for 10 Configuration Contexts. This means that the settings must be stored operator-wise instead of application-wise.
- A Central Settings UI is introduced so that the user can activate a default set of settings (a Configuration Context that is centrally activated for all applications that have the configuration set to default) and enter settings manually.
- An Application UI is available so that the user can select a default set of application settings (a Configuration Context that is activated only for a certain application) and edit parts of the settings manually (only, e.g., username and password).
- With OMA Client Provisioning version 1.1 the user does not have the need to deal much with the settings anymore. Therefore, viewing and editing settings received over the air (OTA) is not possible. However, the user will still have limited editing possibilities for personal data, such as username and password.
- Provisioning for the Nokia 3220 is primarily done through Single Shot Provisioning. However, Multi Shot Provisioning (as done for the Nokia 6220, Nokia 6230, and Nokia 6820) can be used in certain cases as described later in this presentation.

Settings - UI Concept of the Nokia 3220

Configuration Context

Central Settings UI

Applications UI



Single Shot vs. Multi Shot Provisioning

- Single Shot Provisioning (SSP)

- All settings of one operator are received in a single provisioning document.
- This is the provisioning mechanism that has been introduced in the Nokia 3220.

D1	WAP	MMS	Sync	WV	E-mail	...
D2	WAP	MMS	Sync	WV	E-mail	...

- Multi Shot Provisioning (MSP)

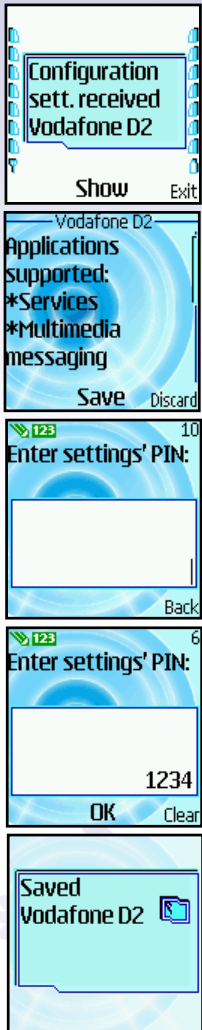
- Settings are received in multiple provisioning documents, that is, a separate provisioning document is received for every application.

D2	WAP					
D2		MMS				
GMX					E-mail	

- This is the former provisioning mechanism supported by, e.g., the Nokia 6230.
- This provisioning mechanism can still be used, especially for settings from Service Providers that send settings for one application only (e.g., e-mail).

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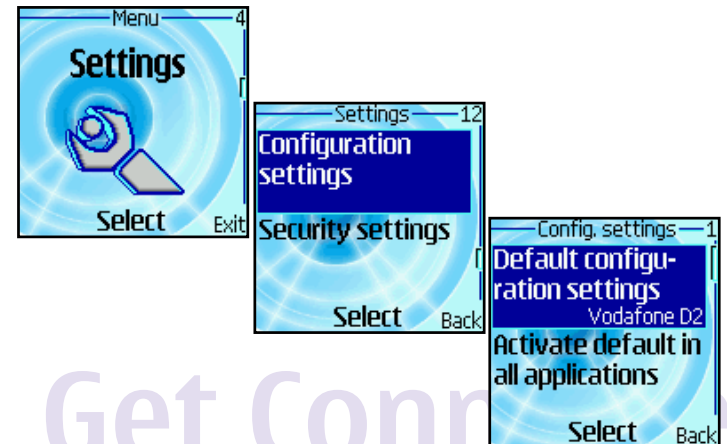
Storing and Activating the Settings (SSP)



When receiving settings over the air SSP-wise, the user will get notified by the device. To save and activate the received settings:

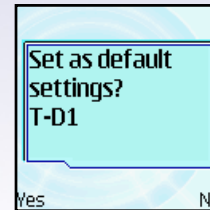
- Select **Show**. The device displays the applications that are supported by the settings that have been received.
- Select **Save**.
- Enter the **PIN** code that has been given by the settings provider and select **OK**.
- The device displays that the settings have been stored in the device.

Because no settings have been available on the device before, it automatically activates the stored settings as the default settings. The activated set of settings is now applied for all applications that use the default settings.

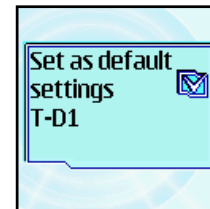


Storing and Activating the Settings (SSP)

When receiving settings over the air and some settings are already available on the device, the user is asked by the device whether he or she wants to activate the new settings as the default settings or not.



If the user selects **Yes**, the new settings are activated as the default settings. The activated set of settings is now applicable for all applications that have the configuration set to default in the Application UI.



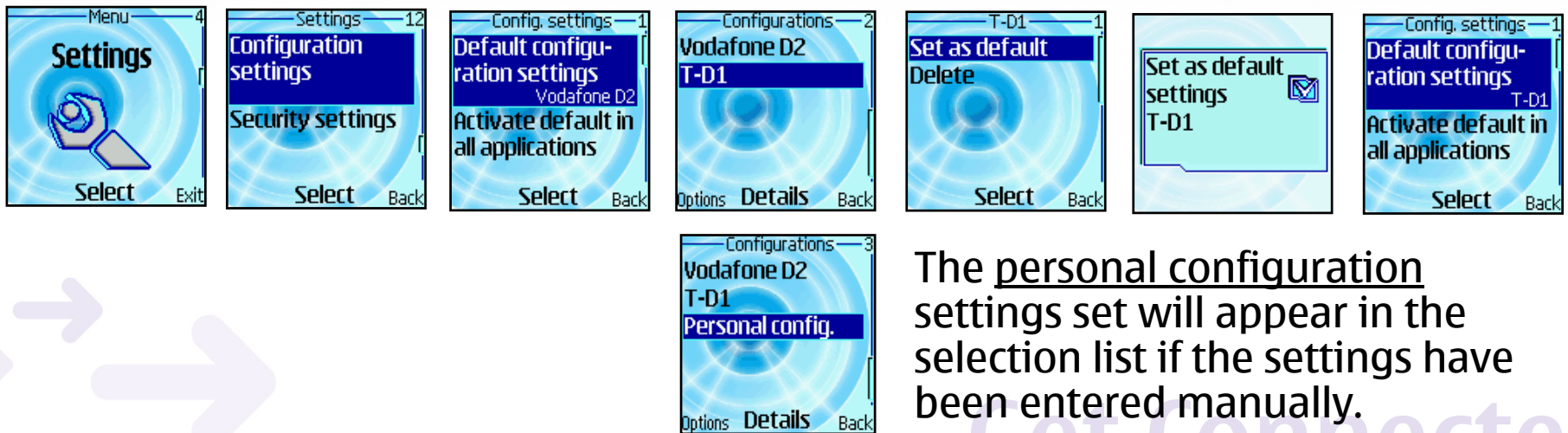
If the user selects **No**, the new settings are stored in the device but are not activated as the default settings. The stored settings can still be activated later.

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Changing Default Configuration Settings

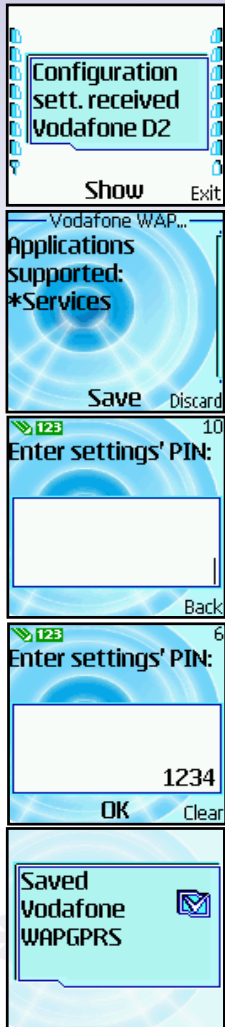
- Go to the **Settings** menu.
- Select **Configuration settings**.
- Select **Default configuration settings**.
- Scroll to the set of settings that you want to activate.
- Select **Options** → **Set as default**.

The activated set of settings is now applicable for all applications that have the configuration set to default in the Application UI.



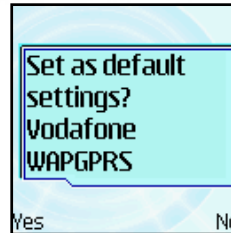
The personal configuration settings set will appear in the selection list if the settings have been entered manually.

Storing and Activating the Settings (MSP)



When receiving settings over the air MSP-wise, the user needs to activate the received settings in a different way than when receiving SSP-wise. The MSP method is applicable for settings received in multiple provisioning documents, that is, when a separate settings provisioning document is received for every application.

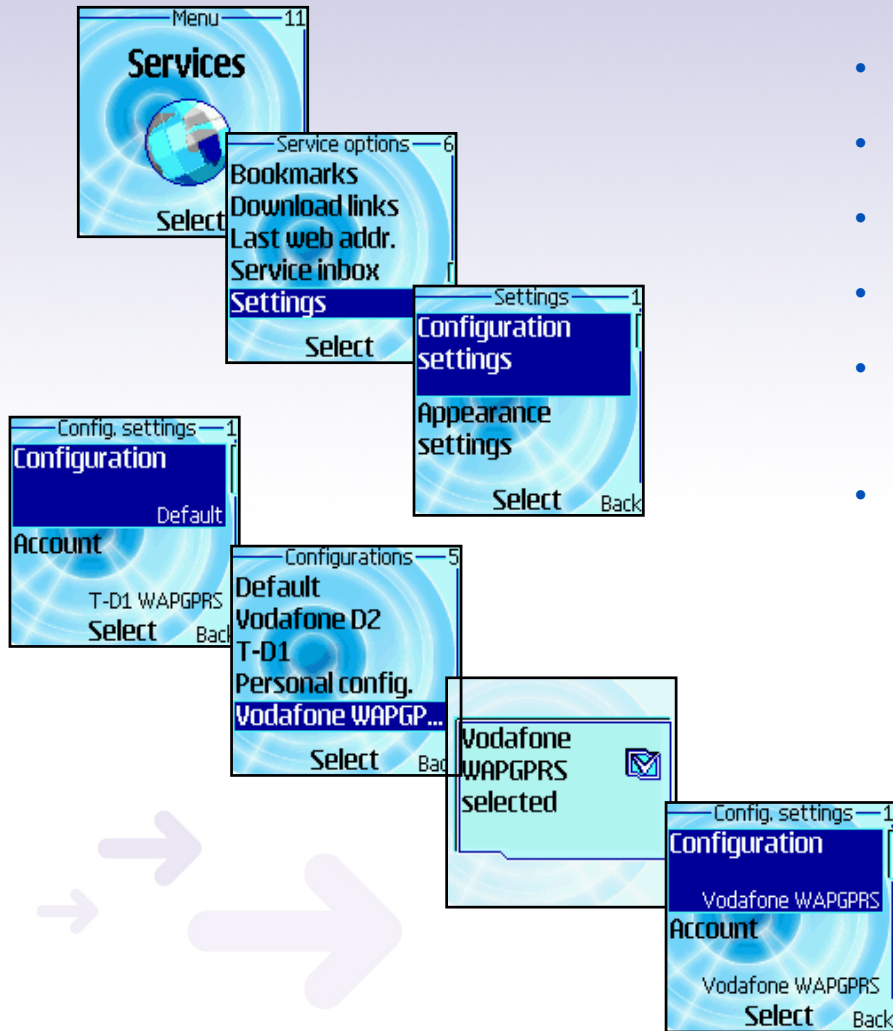
It does not matter if the received settings are set as the default settings (Yes) or not (No), because single application settings must not be activated via the Central Settings UI but via the Application UI. Otherwise settings for other applications may be deactivated.



It is important to activate the received settings in the Application UI as default application settings. This is described on the next slide with an example of selecting WAPGPRS settings.

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Storing and Activating the Settings (MSP)



- Go to the **Services** menu.
- Select **Settings**.
- Select **Configuration settings**.
- Select **Configuration**.
- A list of available sets of settings (Configuration Contexts) is displayed.
- Select **Vodafone WAPGPRS**.

The Services application is now using the directly associated settings instead of the default standard settings activated in the Central Settings UI.

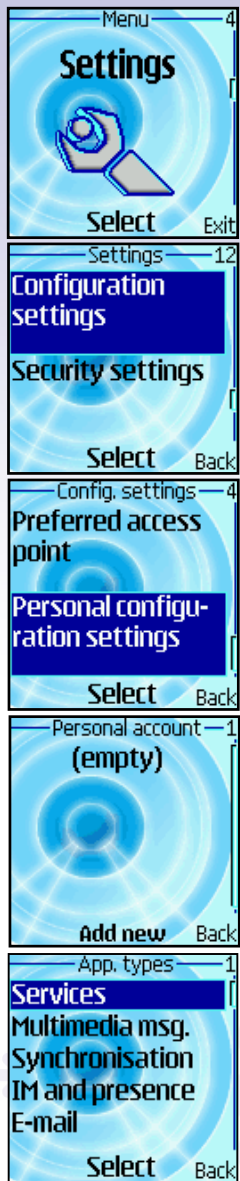
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Entering Settings Manually

One of the 10 possible Configuration Contexts is reserved for entering settings manually. That is, all settings entered by the user will be stored in one Configuration Context.

- Go to the **Settings** menu.
- Select **Configuration settings**.
- Select **Personal configuration settings**.
- Select **Add new**.
- Select the Application type for which you want to add personal settings.
- Enter the settings for the application type that you have chosen.

Adding extra settings and editing stored settings manually are described on the next slide. Note that only the settings that have been entered by the user can be edited. Settings received over the air can be edited only partly (e.g. username, password) via the Application UI.



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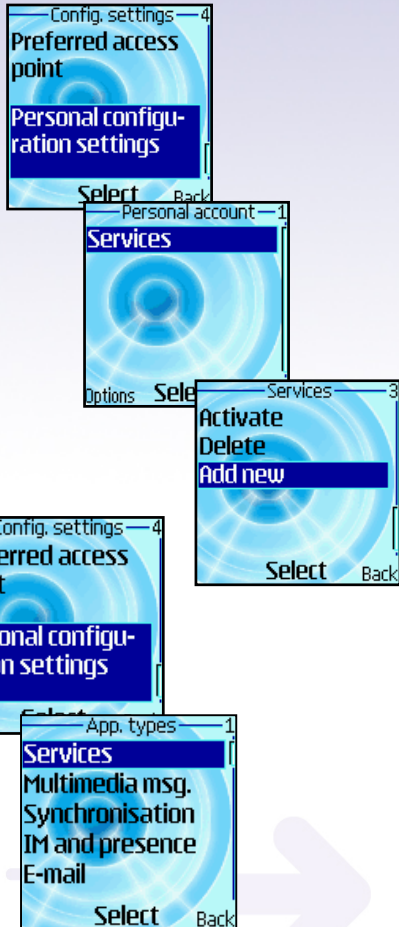
Adding and Editing Settings Manually

To add additional application settings:

- Open the **Personal configuration settings** menu. The personal application settings that are already available are displayed.
- Select **Options** → **Add new**.
- Select the Application type for which you want to add personal settings.
- Enter the settings for the application type you have chosen.

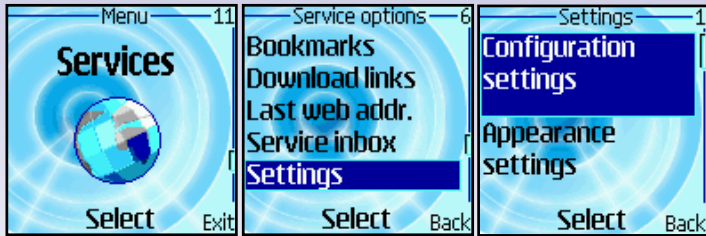
To edit settings entered by the user:

- Open the **Personal configuration settings** menu.
- Select the application you want to edit.
- Edit the settings of the application you have chosen.



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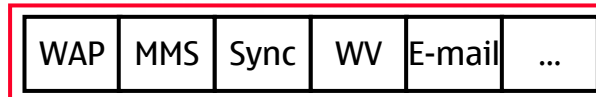
Configuration vs. Account



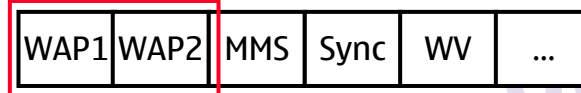
In the Application UI the user can select Configuration or Account.



Configuration is used for activating a default set of application settings, meaning that a whole Configuration Context is used as the default only by a certain application. A Configuration Context can contain settings for multiple applications but only the ones relevant for this application are used.



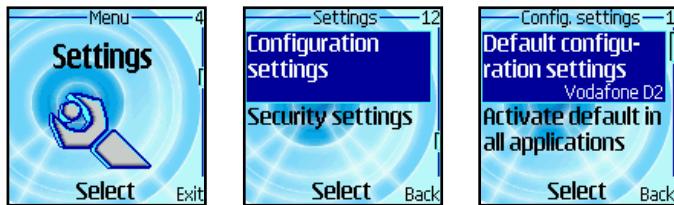
Account is used for activating a certain set of application settings within the activated (Configuration) default settings set. A Configuration Context can not only contain settings for multiple applications, but it can also contain multiple settings for the same application. With Account the user can select which settings are active for the same application.



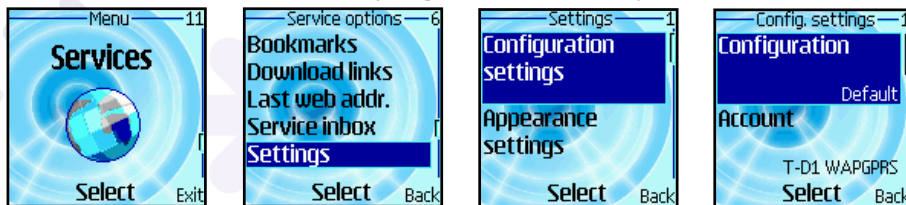
Terms and Abbreviations

- **OMA** Open Mobile Alliance
- **OTA** Over the air
- **SSP** Single Shot Provisioning
(all settings are received in one provisioning document)
- **MSP** Multi Shot Provisioning
(settings are received in multiple provisioning documents, that is, a separate provisioning document is received for every application)

- **Central Settings UI**



- **Application UI (e.g., Services)**



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