



unitop mobile iPad App
Version 1.0

Available in
iTunes Stores
as of Jan. 2012



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1 Introduction

Highest availability rates - Rapid reaction times - Utmost flexibility.

These are the continuously rising demands expected of mobile work within the business area. According to the German weekly computer magazine *Computerwoche* the IDC market research company estimates that the number of tablet computers sold by 2012 will have risen to more than 70.8 million, in fact four times more!

GOB Software & Systeme have already reacted to this development and provided, with their *unitop* mobile, an App for the iPhone that ensures convenient access to the central data from the ERP system Microsoft Dynamics NAV, whilst out of office.

The *unitop* mobile App for the iPad is the most recent product development by GOB. It provides a Role-based Client Technology that has been available for use since the launch of Microsoft Dynamics NAV Version 2009. It supports mobile work in many respects. The assigned Microsoft Dynamics NAV Role can be instantly transferred to the iPad at the mere touch of a button. The work environment can be customized and a single registration simplifies data processing while travelling. Time-wasting searches are eliminated because navigation, additional information and notification are closely linked with each other.

The *unitop* mobile App for iPad enables sales force staff to call the very latest information. While the service staff can access open service orders and enter effective service times, the sales personnel require information on offers, orders and on-hand stock. Since access to the information is controlled by the Role Center based on set up user permissions it can be dynamically transmitted to the iPad, this means that specific information and evaluations are also available to the Manager.

Using the iPad in conjunction with the possibilities of Role-based clients through Microsoft Dynamics NAV offers companies diverse capabilities for a mobile work environment within a very effective information service.



2 Possibilities to use the App

The possibilities to use the *unitop* mobile App for the iPad result from the capabilities of the specific Role in Microsoft Dynamics NAV. The following screenshot shows the user interface of a sales assistant. Based on the user rights, the Role-based navigation area is shown on the left-hand side, while the associated information is presented in the Role Center. To simplify the use while travelling a role optimized for the device can be created in addition to the Microsoft Dynamics NAV Role. Furthermore, individual columns and fields can be hidden .



Fig. 1: Role Center Sales Assistant on the iPad



2.1. Standard App

The Standard App for the iPad is available in the iTunes Apple Store under the name *unitop* iPad. The scope of functions complies with the Microsoft Dynamics NAV Role. The described adaptation of the menu options can be done Role designer as part of the Standard App.

2.2. Customized App

Naturally, *unitop* iPad App can be customized. This applies to functions which are not part of the standard scope of Microsoft Dynamics NAV such as inserting signature fields or off-line order processing. The participation in the so-called (chargeable) Apple Developer Program is required in order to make use of this possibility. The Customized App is made available by GOB.



3 Survey of features

The following survey covers the standard scope of the *unitop* mobile iPad App. The general range of functions depends on the user role. The basic features of App cover:

- ▶ Safety
 - ▶ A PIN code for protection against unauthorized access when starting the App
 - ▶ Encrypted connection set-up with the Proxy Manager via the https protocol
- ▶ Set-up and registration data for connection with the Microsoft Dynamics NAV Server
- ▶ Use the role linked to the Windows user
- ▶ Single and complete synchronisation of data
- ▶ Online access to the Microsoft Dynamics NAV Server to call business logics
- ▶ Data presentation
 - ▶ Typical RTC list form to display data
 - ▶ Typical card presentation with tab display
 - ▶ Use of Option field definitions
 - ▶ Calling linked information
- ▶ Calling reports
 - ▶ Reports stored in the Role Center are loaded and updated remotely
 - ▶ Zoom display of reports
- ▶ Notifications are displayed in the "Role Center" of the iPad
- ▶ Card display of clients, contacts and suppliers in the neighbourhood
- ▶ Status display via connection, user, company and Role
- ▶ Display customization
 - ▶ Show and hide column headings in the list
 - ▶ Show and hide fields within the card forms
- ▶ Search of Data within lists using different fields
- ▶ Processing and acquisition mode
- ▶ Card view of the selected address field
- ▶ Email dispatch out of the contact



- ▶ Build up telephone connection directly from telephone fields
- ▶ List and card views

Downloading a free version from the iTunes store will give you a detailed overview of the application, its use and functionality.



4 Installation and technology

4.1. System requirements

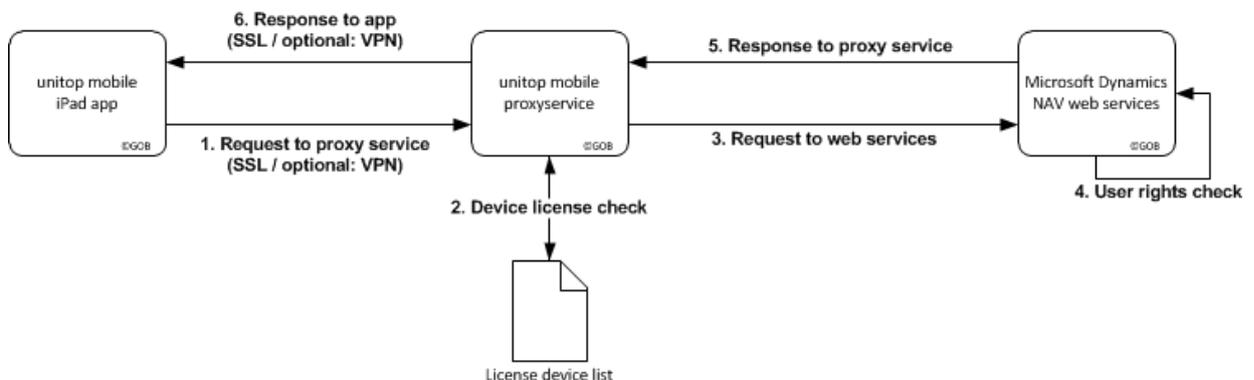
- ▶ Microsoft Dynamics NAV 2009 SP1
- ▶ Internet Information Service
- ▶ Object type Pages
- ▶ Web Service
- ▶ Proxy Manager GOB

4.2. Access details

The *unitop* mobile iPad App accesses the *unitop* mobile Proxy Service via a protected SSL connection which, in turn, transfers the inquiry directly to Microsoft Dynamics NAV Web Services. The requested information is then returned by the reversed procedure from Microsoft Dynamics NAV, via the Proxy Service, to *unitop* mobile iPad App. This connection can be additionally protected and established via a VPN connection.

The App access to the Proxy Service is simultaneously combined with the verification of the device license list to establish whether the given iPad has access authorisation. The following graph indicates the access details:

unitop mobile iPad access description:





4.3. Installing the components

The installation of the components is divided into two areas. Some components need to be installed in advance and, then *unitop* mobile iPad App for the user must be installed. The underlying preconditions must be established before the *unitop* mobile iPad can be used.

The following steps are necessary:

1. Import the *unitop* mobile Microsoft Dynamics NAV objects, installation of the *unitop* mobile XMLcreator and modification of the exported information
 - a. Setup objects:
 - i. These objects export Microsoft Dynamics NAV structure information in XML format.
The *unitop* mobile XMLcreator then produces optimized XML structures based on this information which is used by the *unitop* mobile iPad App. (iPad App can use these optimized structures to display dynamic Microsoft Dynamics NAV structures and recreate the corresponding menus and views.)
These setup objects are also used to import modified Microsoft Dynamics NAV original structures to which information is added required for the dynamic access to the Microsoft Dynamics NAV Web Services. (These modifications are not visible to the Microsoft Dynamics NAV user)
 - b. Web Service Objects
 - i. The *unitop* mobile Web Service objects consist of code units that are released as Microsoft Dynamics NAV Web Services and made available to the iPad App as additional functions.
 - Establish the User Role Center and its language
 - Provide reports requested by the iPad user
 - Transfer of Microsoft Dynamics NAV notifications to the iPad user
2. Installing IIS (Internet Information Service)
 - a. Provide a folder for storing the iPad App Microsoft Dynamics NAV structures created by the XMLcreator, as well as the requested reports to be downloaded.



(Enables iPad to load the necessary structure information and according to the given user role)

3. Configuration of the HTTP Service

- a. The HTTP Service must be configured to enable the use of the Proxy Service. Therefore the HTTP Service must be notified regarding a Proxy Service address that is linked with an SSL certificate.

4. Installing the *unitop* mobile Proxy Managers and the *unitop* mobile Proxy Service

- a. Installation and licensing of the *unitop* mobile Proxy Managers
(The Proxy Service can only be used after successful licensing; the Proxy Manager licence is issued in advance by GOB)
- b. Installation of the *unitop* mobile Proxy Service and configuration by the Proxy Manager
 - i. After the *unitop* mobile Proxy Service has been installed, its setting can then be configured by the Proxy Manager.
The following has to be defined: the address of the Microsoft Dynamics NAV Web Service detailing the used port number, the transmission protocol (HTTP/HTTPS (SSL)), as well as Microsoft Dynamics NAV clients. Details to provide the Proxy Service must be given, too.
- c. Setting up the Proxy Manager Device License Configuration
 - i. This is where the access authorizing device IDs are entered.



The following steps are necessary for the installation of the iPad App:

1. Installing the App without client adaptations:

- a. The iPad user can download the *unitop* mobile iPad App directly from the iTunes Store and then adapt the user and server configuration within the App to the given client-specific settings.

Prior to the first synchronisation and/or connection with the *unitop* mobile Proxy Service that is installed with the customer, the user must first send his/her device ID via the *unitop* mobile iPad App setup menu to the given system administrator who can then release the device license configuration via the Proxy Manager.

2. Installing the App with client adaptations:

- a. To install the customizations in the App, the customer must have registered in the Apple Developer Program. This program then enables the customer to distribute the adapted *unitop* mobile App, by-passing the Apple Store and via an ad hoc distribution, directly to the devices of his staff.
- b. Prior to ad hoc App installation the device ID of the given iPad must have been registered in the Apple Developer Portal and linked with a corresponding ad hoc profile belonging to the individual App.
- c. The ad hoc profile must then be installed on the iPad.
(Via iTunes or the iPhone configuration program)
- d. After ad hoc profile installation it will then be possible to load the customized *unitop* mobile App on the corresponding iPad.
(Via iTunes or the iPhone configuration program)

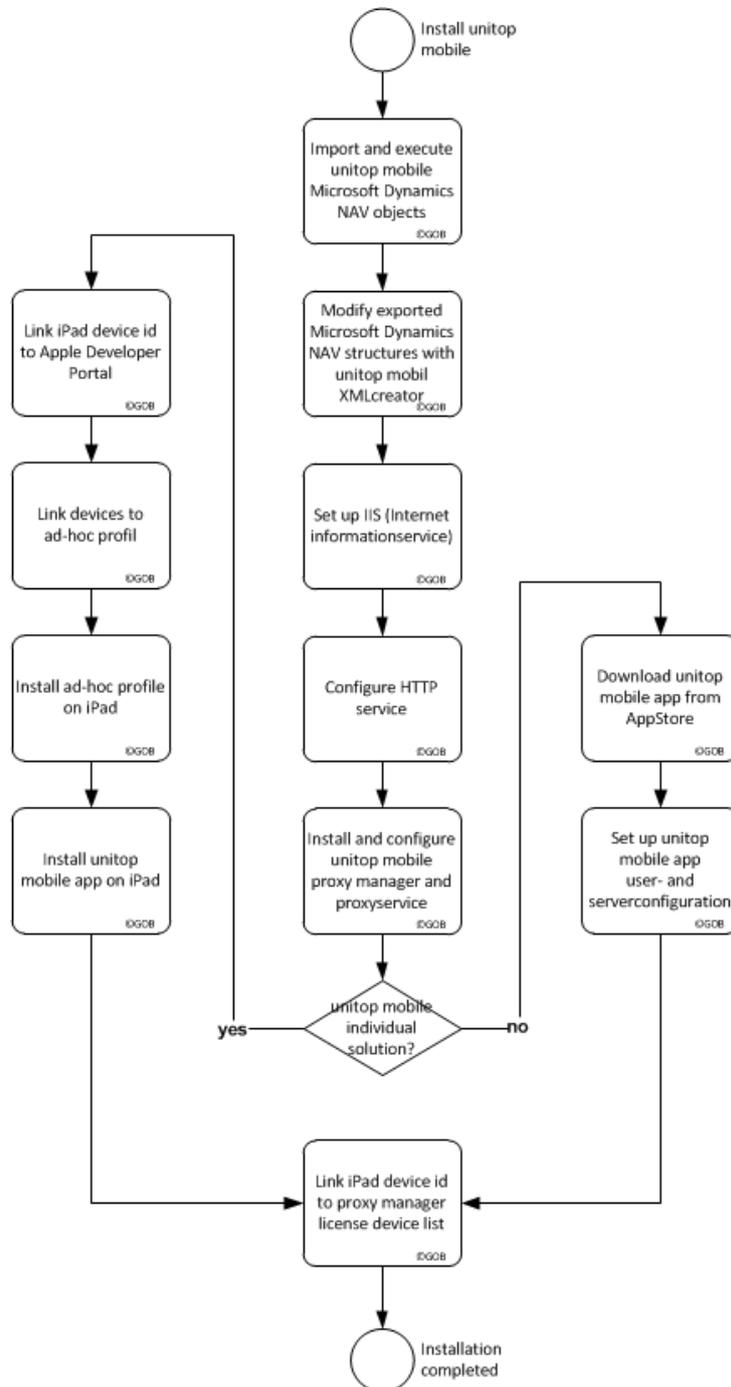


- e. Prior to the first synchronisation and/or connection with the *unitop* mobile Proxy Service installed at the client, the user must first send the given device ID via the *unitop* mobile iPad App Setup menu to the given system administrator who can then release the device license configuration via the Proxy Manager.

(The following page illustrates the installation process)



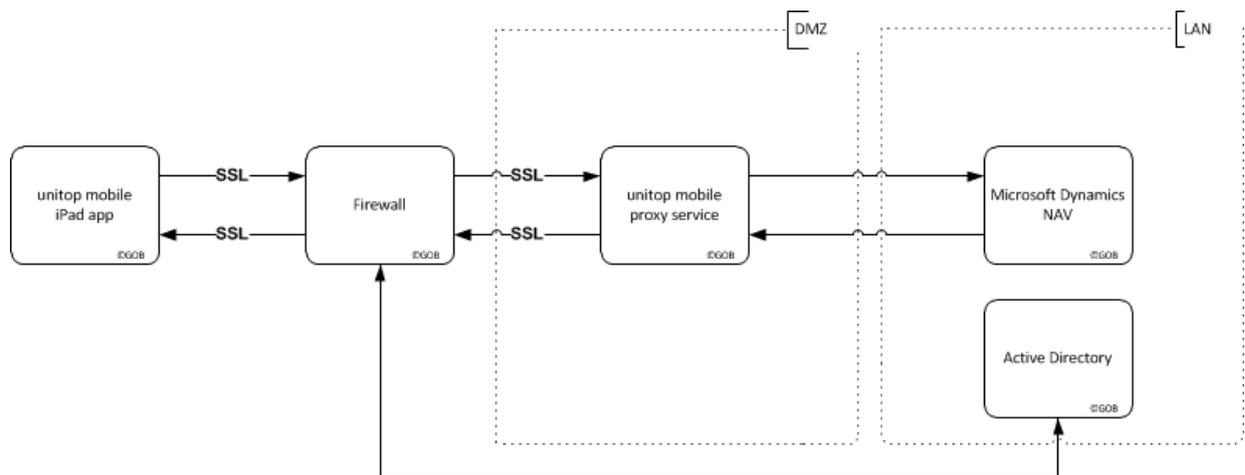
unitop mobile installation:



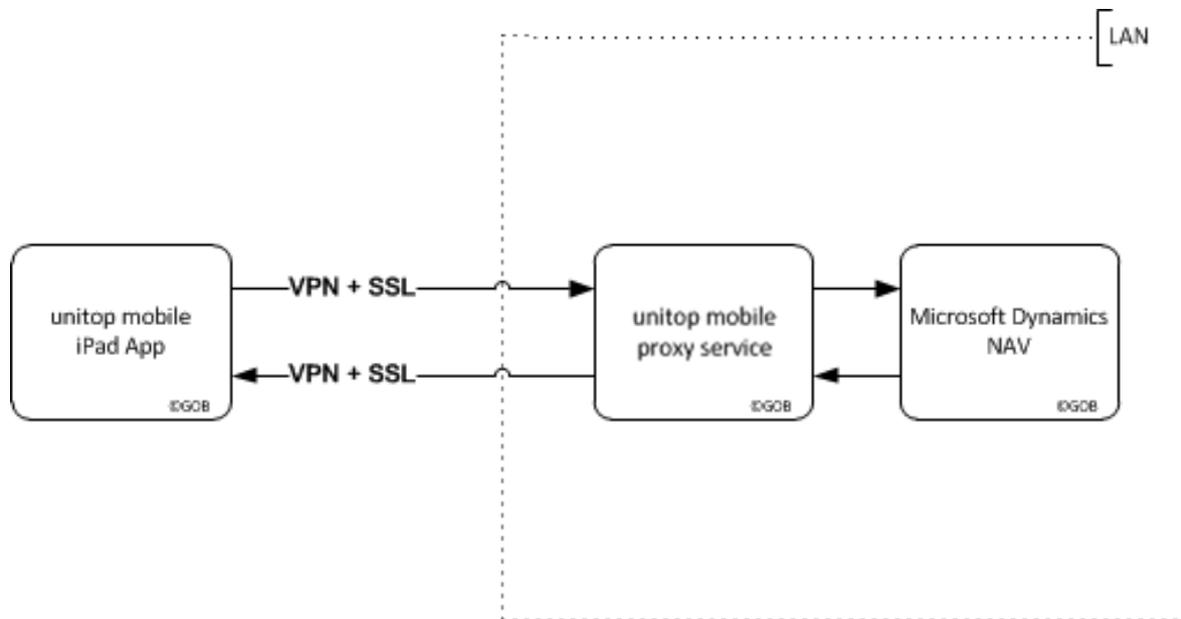


4.4. Technical data flow/Infrastructure

unitop mobile infrastructure with DMZ:



unitop mobile infrastructure with VPN:





5 Licensing and required objects

5.1. Licensing the standard App

Smooth operation of the *unitop* mobile iPad App requires licensing by the Proxy Manager who regulates authorized access, licensing and calling the Web Services between App and Microsoft Dynamics NAV.

► Proxy Manager

The Proxy Manager also covers the Proxy Services. This module is used to establish the link between Microsoft Dynamics NAV and the *unitop* mobile iPad App, as well as administration and configuration. The price for the Proxy Manager then depends on the number of given deployed mobile Clients.

Price Survey Standard App	
Price range 1-5 mobile Clients	990.00 Euro
Price range 6-10 mobile Clients	1,990.00 Euro
Price range 11-20 mobile Clients	2,990.00 Euro
Price range 21-50 mobile Clients	4,990.00 Euro
Price range > 50 mobile Clients	9,990.00 Euro

- The *unitop* mobile iPad App is obtained via the iTunes Store for a price of Euro 99.00 (as of 01/2012).
- Depending on the given licensing model it will be necessary to license the Web User (with MBL) or Light User (with BRL).



5.2. Licensing the customized App

Licensing the customized App is in line with description 5.1. The basis for the Client App License is the same as the price of the iTunes Store. The price for customization will be based on a specification to be agreed on. Since a new App is produced, the customer needs to apply for membership in the Developer Program from Apple. For further information please refer to the subsequent link:

<http://developer.apple.com/programs/which-program/>

5.3. Required Microsoft Dynamics NAV objects

1 table, 2 codeunits, 1 page and 2 XML ports are included in the Proxy Manager's price.

5.4. Services

The following services are required:

- ▶ Installing and setting up '*unitop* mobile'
- ▶ Installing the Page Manager
- ▶ Providing the Web Services
- ▶ User installation and access test
- ▶ Installing and setting up the Proxy Manager

Time required: approx. 1-2 days

5.5. Licensing process

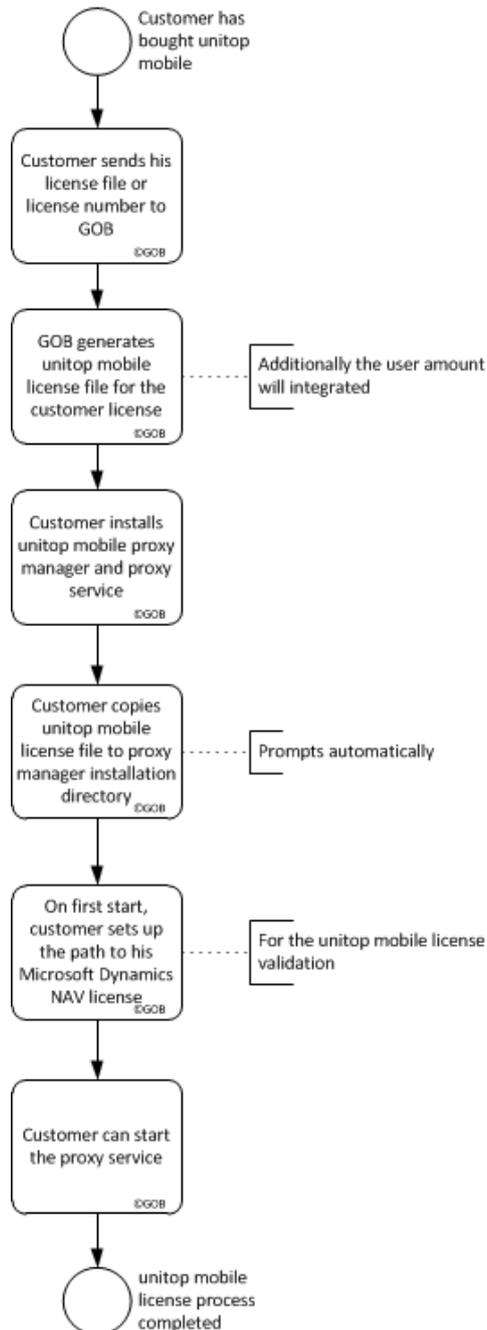
The licensing process prevents unauthorized use of the *unitop* mobile solution and limits the number of users defined by the license. Consequently, the licensed *unitop* mobile components access a corresponding *unitop* mobile license file and do not have to be adapted separately.

A *unitop* mobile license is always only valid for one Microsoft Dynamics NAV license. The association of a *unitop* mobile license with a Microsoft Dynamics NAV license is established by the Microsoft Dynamics NAV license number. The following graph indicates the entire licensing process.





unitop mobile licensing process:





6 Screenshots

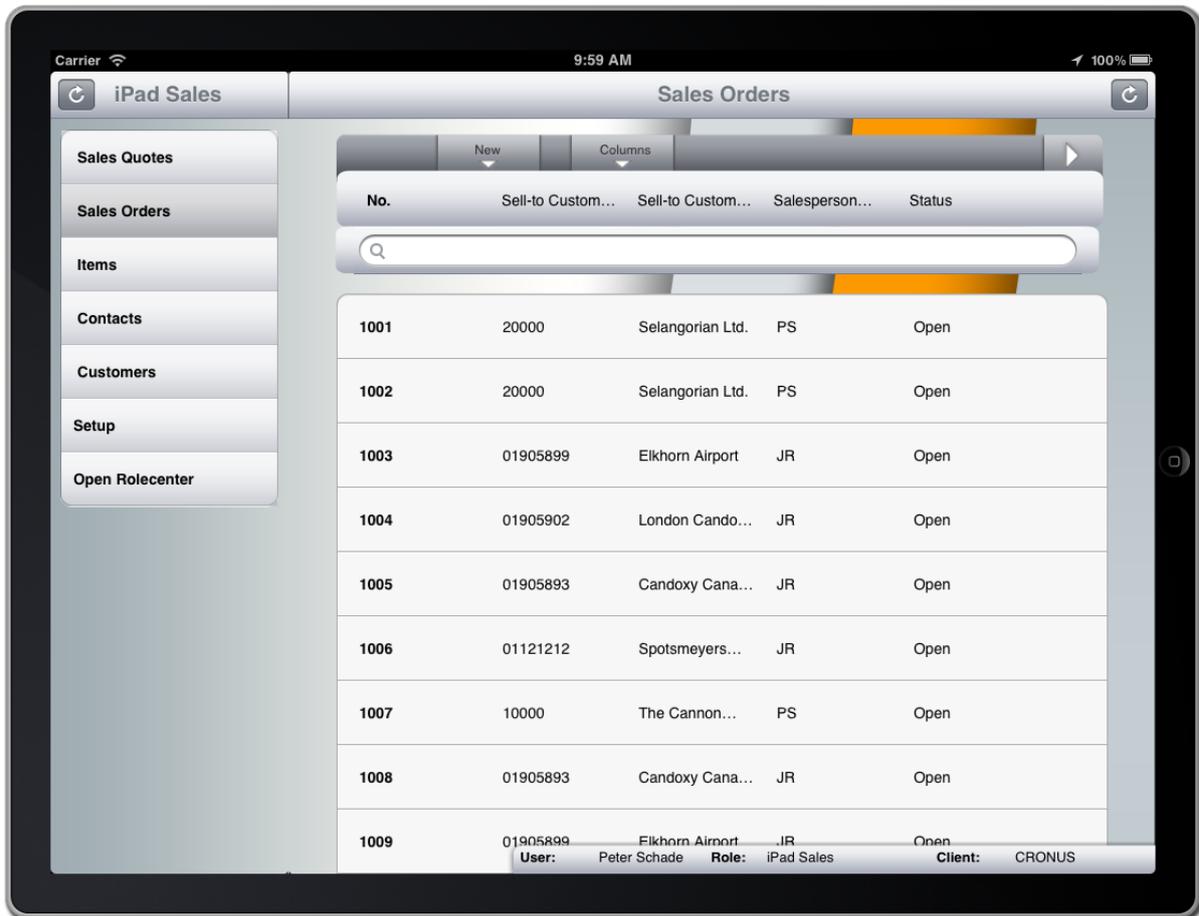
Below some examples showing the use and functionality in some screenshots.

6.1. Rolecenter View





6.2. List View Sales Orders





6.3. Search List View



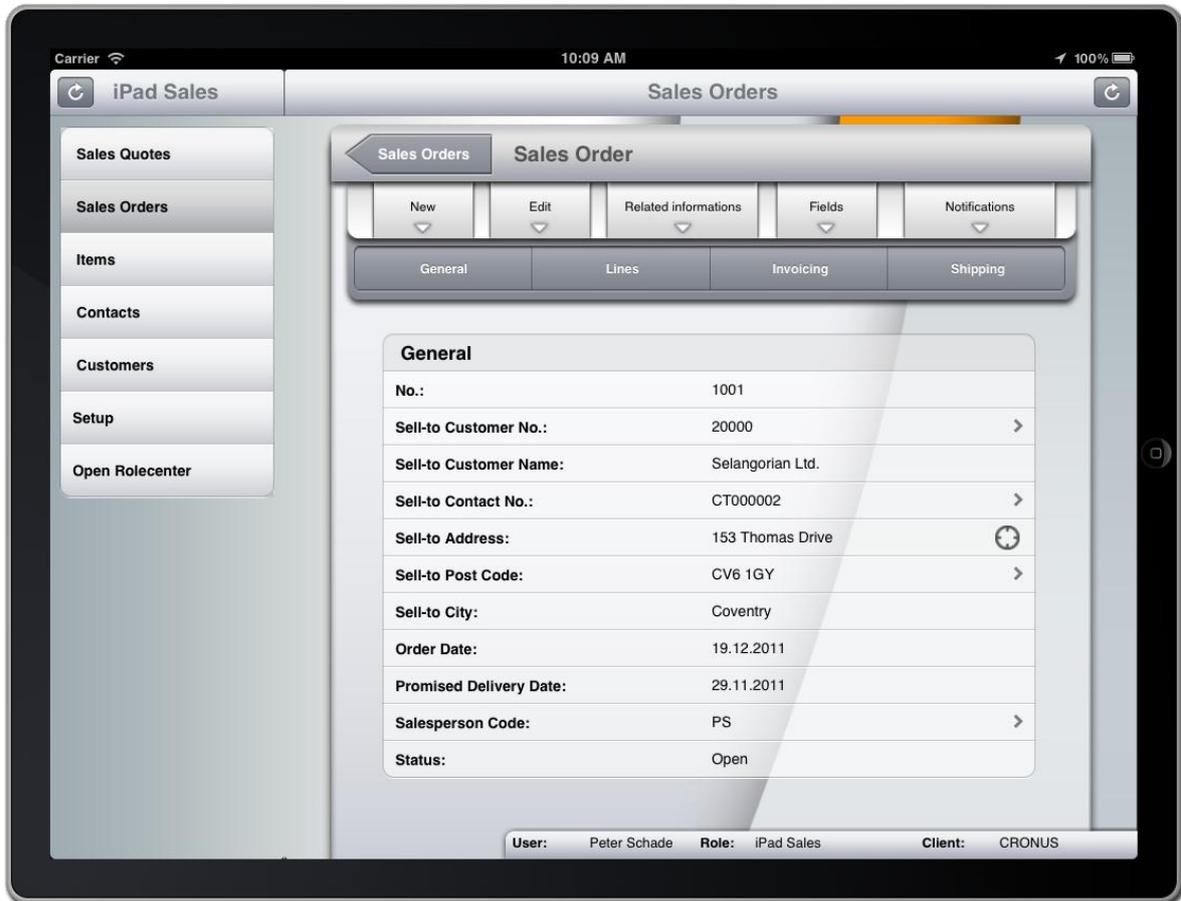


6.4. List View Column Display





6.5. Card View Sales Order



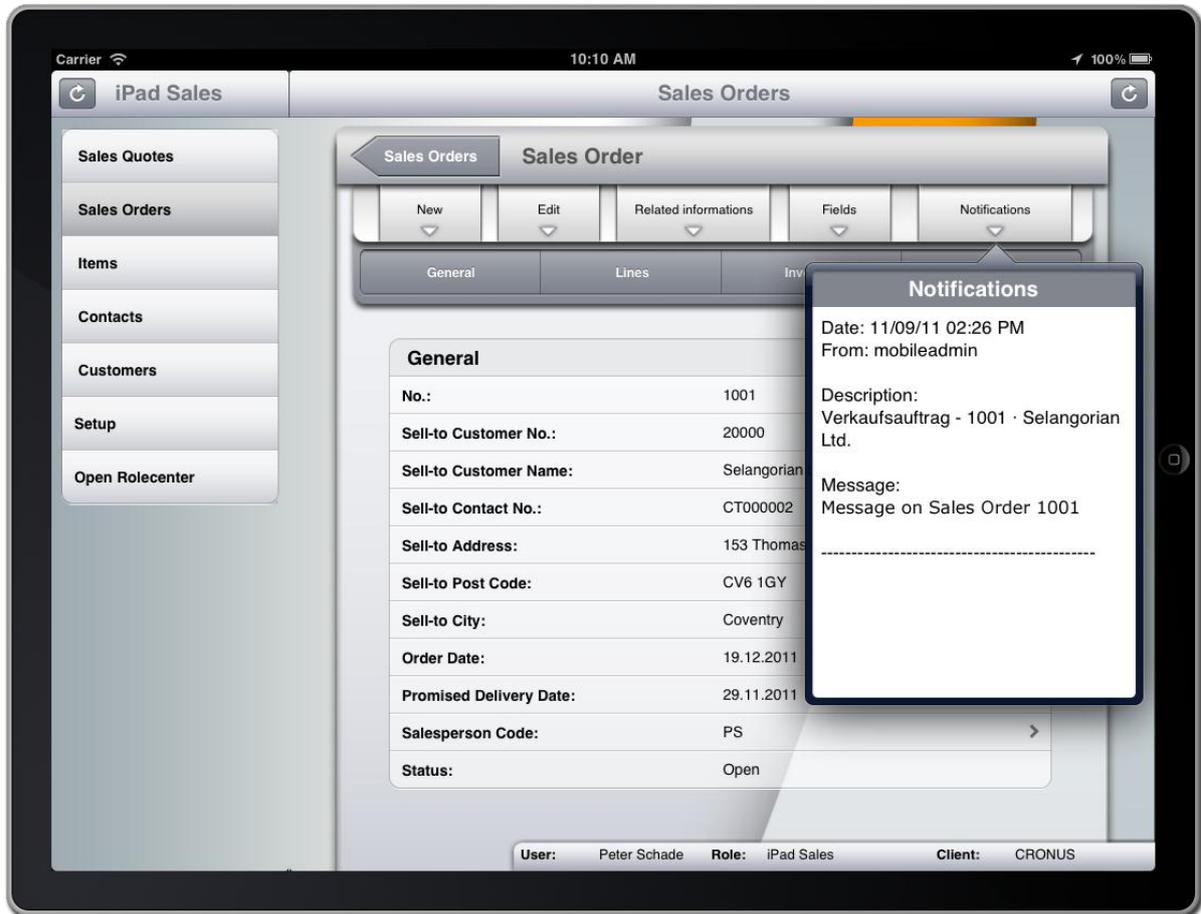


6.6. Card View Sales Order Lines



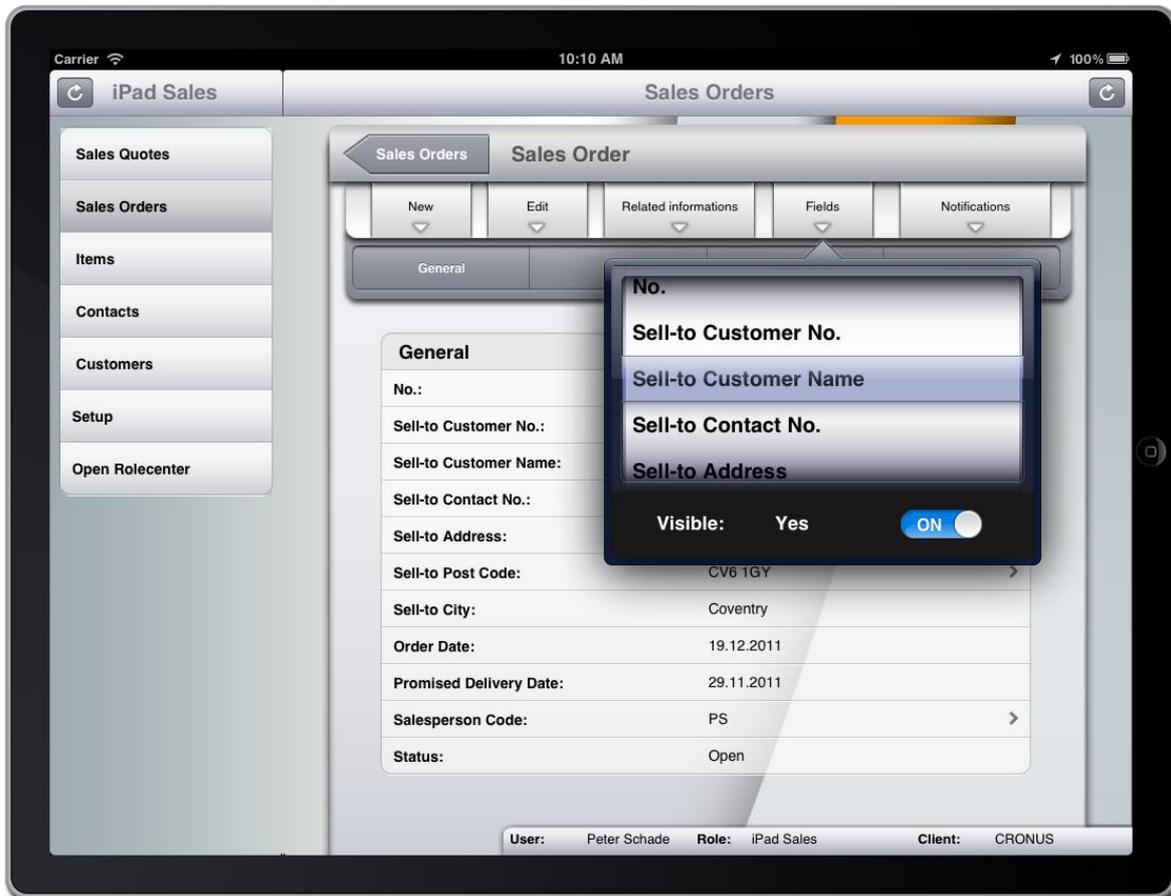


6.7. Card View Notifications





6.8. Card View Field Display





6.9. Card View Linked Information





6.10. Edit Mode

Carrier 11:14 AM 100%

IPAD SALES

- Sales Quotes
- Sales Orders
- Items
- Contacts
- Customers
- Setup
- Open Rolecenter

01905899	Elkhorn Airport	105 Buffalo Dr.
01905902	London Can...	120 Wellington Rd.
10000	The Cannon...	Mühlenweg 35
20000	Selangorian...	153 Thomas Drive
20309920	Metatorad...	No 16M Jalan SS22
20312912	Highlights EI...	28 Ground Floor, 1...

Sell-to Customer No.: 20000

Sell-to Customer Name: Selangorian Ltd.

Sell-to Contact No.: CT000002

Sell-to Address: 153 Thomas Drive

Sell-to Post Code: CV6 1GY

Sell-to City: Coventry

Order Date: 19.12.2011

Promised Delivery Date: 29.11.2011

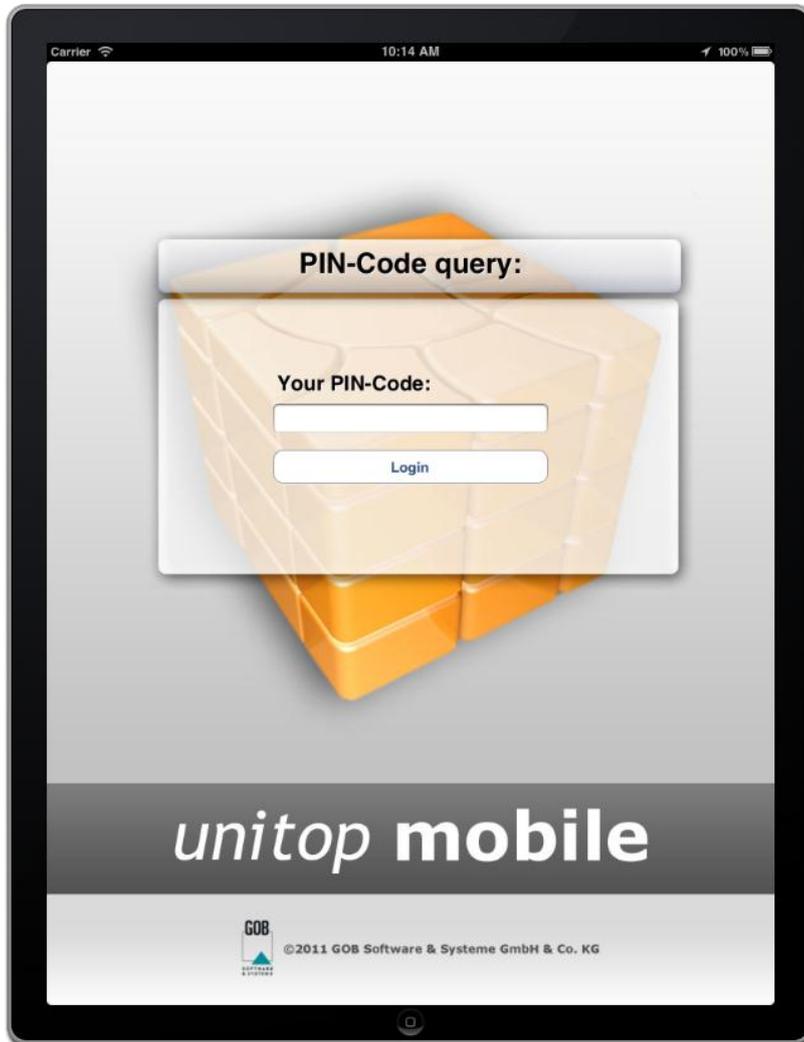
Salesperson Code: PS

Status: Open

User: Peter Schade Role: IPAD SALES Client: CRONUS

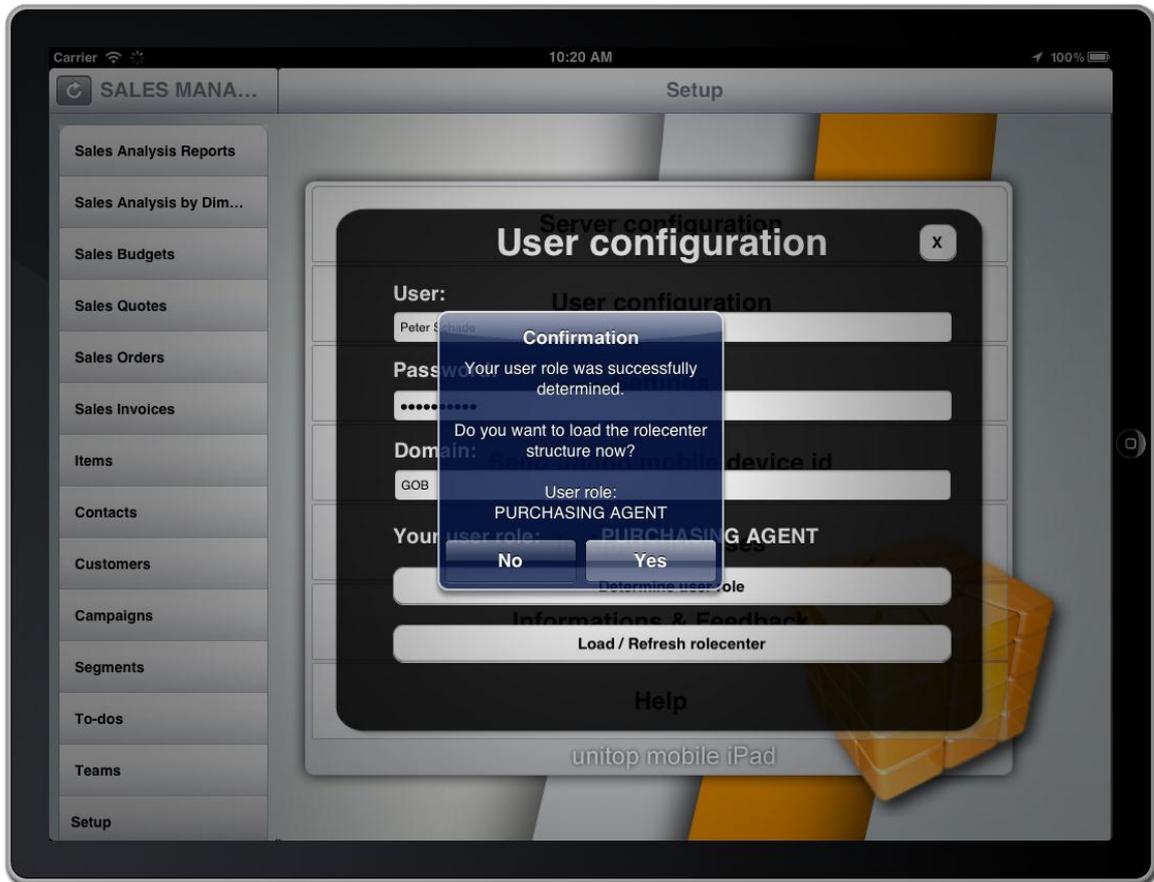


6.11. PIN Code Query





6.12. Loading User Configuration





6.13. Loading





6.14. Rolecenter Sales Person





6.15. Rolecenter purchaser





7 Contact

For questions and further information do not hesitate to contact us. Please send us your request per email to: unitopmobile@gob.de

8 Editor

The Microsoft Dynamics NAV partner GOB is a full-range provider of ERP software for medium-sized companies and organizations. *unitop*, the all-in-one business solution, based on Microsoft Dynamics NAV, is used in companies focusing on trade, manufacture, logistics, the steel industry, as well as all kinds of associations, charitable or not.

The software and systems integrator GOB has been founded in 1965 and currently employs more than 200 people. GOB is Microsoft Dynamics NAV partner since 1997 and offers comprehensive industry solutions based on Microsoft Dynamics NAV for medium sized companies and organisations. More than 500 customers with their main focus on trading, manufacturing and logistics, companies of the steel industry as well as associations, charitable or not, benefit from GOB's fully integrated solution concept *unitop*.

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