



2N[®] Helios IP Manager

2N[®] Helios IP Door Intercom Configuration and Administration Software



User Manual

Version 1.2.0
Software 1.2.x

www.2n.cz

The 2N TELEKOMUNIKACE a.s. a.s. joint-stock company is a Czech manufacturer and supplier of telecommunications equipment.



The product family developed by 2N TELEKOMUNIKACE a.s. includes GSM gateways, private branch exchanges (PBX), and door and lift communicators.

2N TELEKOMUNIKACE a.s. has been ranked among the Czech top companies for years and represented a symbol of stability and prosperity on the telecommunications market for almost two decades. At present, we export our products into over 120 countries worldwide and have exclusive distributors on all continents.



2N[®] is a registered trademark of 2N TELEKOMUNIKACE a.s.. Any product and/or other names mentioned herein are registered trademarks and/or trademarks or brands protected by law.



The 2N TELEKOMUNIKACE company is a holder of the ISO 9001:2008 certificate. All development, production and distribution processes of the company are managed by this standard and guarantee a high quality and advanced technical level of and a professional approach to all of our products.

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1

Product Overview

In this section, we introduce the **2N® Helios IP Manager** product, outline its application options and highlight the advantages following from its use. The section also includes safety precautions.

Here is what you can find in this section:

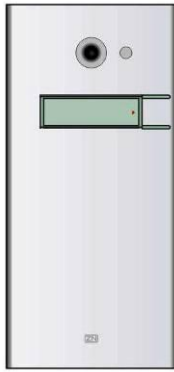
- Product Description
- Associated Products
- Upgrade
- Terms and Symbols Used

1.1 Product Description

The **2N® Helios IP Manager** application helps configure and administer door access communicators (intercoms) from the 2N® Helios IP family. The application is intended for the system administrator and is installed on a computer that has access to the intercoms configured via a LAN network.

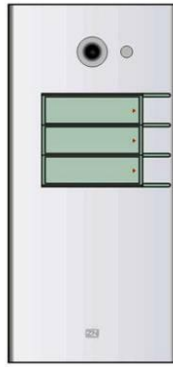
1.2 Associated Products

Basic 2N[®] Helios IP Units



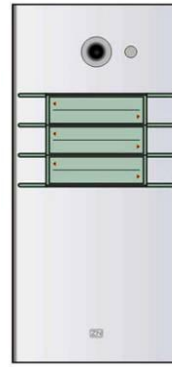
9137111(C)E

Basic unit
1 button



9137131(C)E

Basic unit
3 buttons



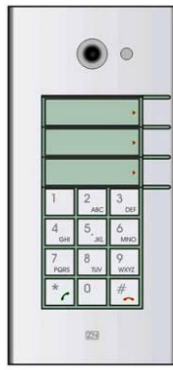
9137161(C)E

Basic unit
3×2 buttons



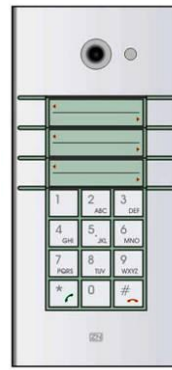
9137111(C)KE

Basic unit
1 button + keypad



9137131(C)KE

Basic unit
3 buttons
+ keypad



9137161(C)KE

Basic unit
3×2 buttons
+ keypad



9137160(C)KDE

Basic unit
3×2 buttons
+ keypad + display

(C) = integrated camera

1.3 Upgrade

The manufacturer reserves the right to modify the product in order to improve the product's properties.

Manual Version	Description of Changes
1.2.0	<ul style="list-style-type: none">■ The Condensed User Manual corresponds to the 2N[®] Helios IP Manager firmware version 1.2.X.



Caution

- The manufacturer is committed to upgrading the firmware according to the clients' requirements. Refer to the 2N web sites www.2n.cz for the current **2N[®] Helios IP Manager** firmware versions and User Manual updates.

1.4 Terms and Symbols Used

Symbols Used in Manual



Warning

- **Always** abide by this information to prevent damage to the device.



Caution

- **Important information** for system functionality.



Tip

- Useful advice for quick and efficient functionality.



Note

- Routines or advice for efficient use of the device.

Future Functions and Features

The grey-marked text in this document designates the functions and features that are under preparation or development at present.

2

Software Installation

This section describes the installation of the **2N® Helios IP Manager** software.

Here is what you can find in this section:

- Minimum System Requirements
- Software Installation

2.1 Minimum System Requirements

Minimum Requirements

Operating system:	Windows XP SP2, Windows Vista, Windows 7
Processor:	1 GHz
Operating memory:	512 MB
Available disk space:	x86 – 900 MB, x64 – 2 GB
Display resolution	1024 x 768 pixels

Recommended Configuration

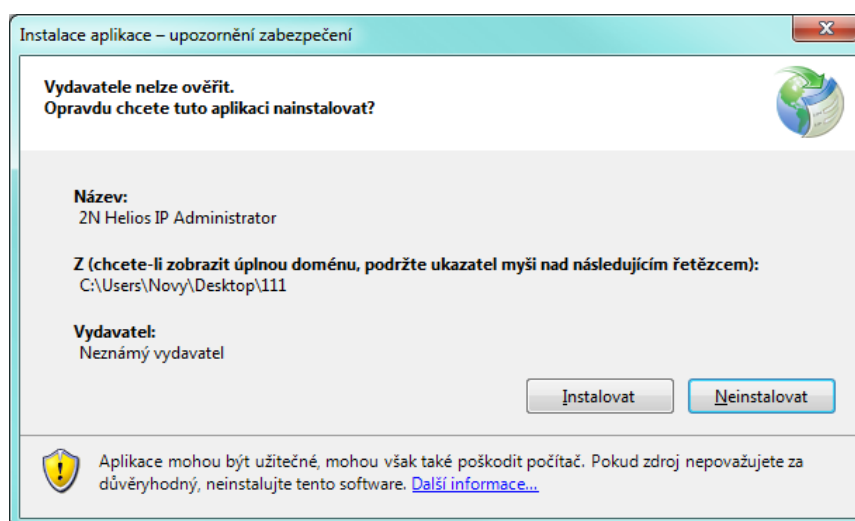
Operating system:	Windows XP SP2, Windows Vista, Windows 7
Processor:	2 GHz
Operating memory:	1 GB
Available disk space:	x86 – 900 MB, x64 – 2 GB
Display resolution	1024 x 768 pixels

2.2 Software Installation

Find the **2N® Helios IP Manager** on the product CD enclosed. Download the latest version from the www.2n.cz website.

The application can be installed on a computer featuring a Windows XP, Windows Vista, or Windows 7 operating system. To install the software, launch the **setup.exe** file.

A security warning (see below) will be displayed during installation; please accept it by pressing the **Install** button.



2.3 Application Licences

The 2N® Helios IP Manager is supplied as a 30-day demo version for up to five devices configured within a project. Normally, the following licences are available:

9137911 - 5 devices

9137912 - 20 devices

9137913 - 50 devices

9137914 - unlimited

To generate a licence, click on the **Request new licence** to get the unique PC identifier.

The screenshot shows the 2N Helios IP Manager software interface. The title bar reads "2N Helios IP Manager" and includes menu items: Save, Save As, Load, New, and Upload. The main window is titled "Settings" and contains a "License" tab. The license management section is titled "Using valid licenses for specified User" and features a "Request new licence" button. Below this is a table of active licenses:

Activated	Start	Expire	ExpireDays
Thursday, October 20, 2011			30
Owner Name:			
Max users		30	9999
Max devices		30	5
Tuesday, November 22, 2011			
Owner Name: Pepa			
Max users			9999
Max devices			50

Below the table, there is a checkbox for "Show expired licenses" and a button for "Add new license file". The left sidebar contains navigation links for Users, User Groups, Zones, Devices, Time Profiles, and Settings. The bottom of the sidebar displays the copyright notice: "(c) 2N TELEKOMUNIKACE a.s."

3

Application Controls

This section describes the **2N® Helios IP Manager** controls.

Here is what you can find in this section:

- Basic Controls
- Zones
- Devices
- Users and User Groups
- Time Profiles
- Uploading Data
- System Configuration Back-Up

3.1 Application Controls

The application window is divided into several sections (see the figure below).



Toolbar

The configuration back-up for the administered intercoms is saved on the system administrator's PC as an **xml** file. The configuration setup can be saved or loaded to/from a file or to any of the intercoms using the toolbar buttons.

- **Save** – save a project into a file.
- **Load** – load a project from a file.
- **New** – set up a new project.
- **Upload** – send a configuration to selected devices.

Tags

The system configuration includes several areas. Use the tags in the left-hand bottom corner of the window to switch between the areas.



Tip

- Double-click on a tag to display a detailed item list (Users, Zones, Devices, etc.)

Item List

The item list displays the objects created (users, zones, devices, etc.) for the selected tag. Right-click on the item to display a context menu with the offer of actions related to the item.

Context Buttons

Context buttons are used for quick handling of the object displayed. The number and functions of the buttons depend on the currently chosen tag – part of the system configuration. Typically, the following buttons are available:

- **Add** or **Create** – add or create a new item.
- **Delete** – delete an item.

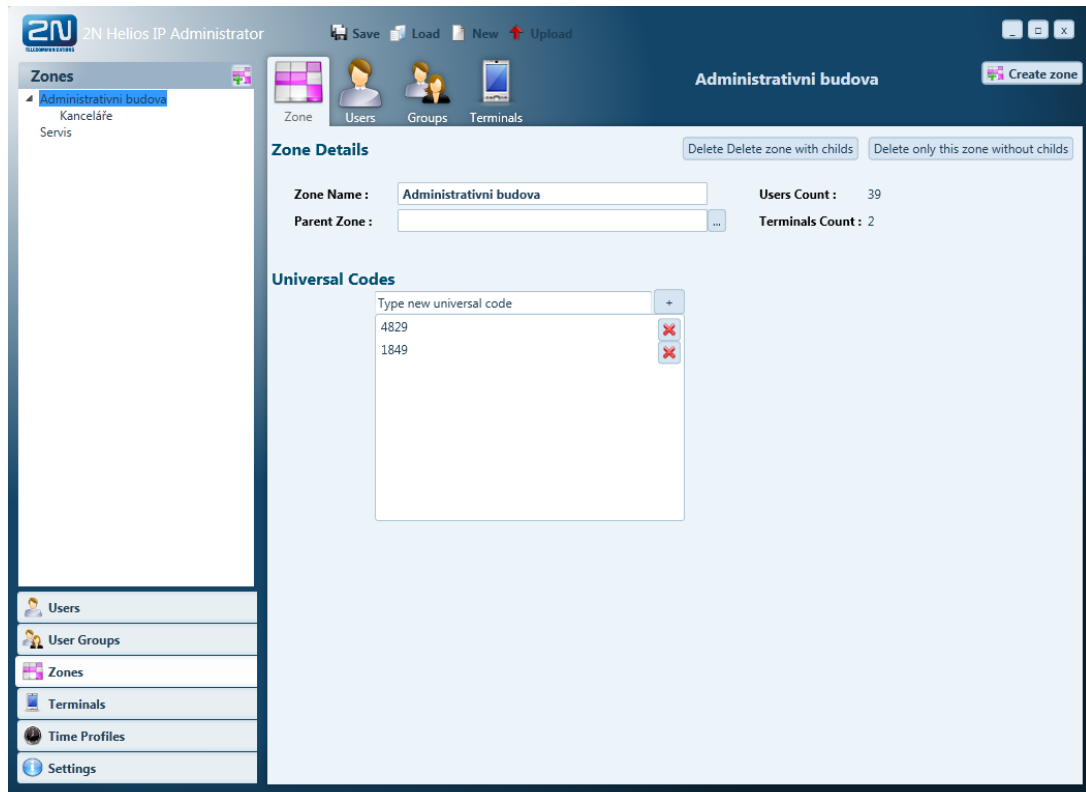
Configuration Cards

Configuration cards make the setup of the selected item clearer and well-structured.

3.2 Zones

Any area or building entrance secured with a door access communicator can be divided into zones. Access to those zones can be restricted only to the people on a list.

You can define any number of zones in the system and specify their hierarchies as required. Remember to create one zone at least while making a new configuration.



To create a zone:

- Go to the **Zones** item in the tags.
- Call up the **Create root zone** context menu in the item list.
- Enter the zone name.
- Press **Create** to confirm your zone creation.

When creating zone hierarchy, always start from the highest superior zone.

To create a subordinate zone:

- Go to the **Zones** item in the tags.
- Call up the **Create root zone** context menu in the item list.
- Enter the zone name and choose the **Parent Zone**.
- Press **Create** to confirm your zone creation.

**Tip**

- The currently selected zone is used as the default **Parent Zone** for subordinate zone creation.

One or more universal numeric access codes can be assigned to each zone. These access codes can be used for fast and secure access to a zone with intercoms featuring a numeric keypad. The codes entered will apply to all devices in the given zone.

3.3 Devices

Every 2N[®] Helios IP intercom is represented by a **device** in the application. Define a device using the IP address, communication port and access password.

The screenshot displays the 2N Helios IP Manager web interface. The main window is titled 'Administrativni vchod'. On the left, there is a 'Devices' sidebar with a search filter and a list of devices: 'Administrativni vchod', 'Marketing', 'Obchod', 'Servis', and 'Zadni vchod'. The 'Administrativni vchod' device is selected. The main area shows the 'Device Details' for this device, including fields for 'Device name', 'IP address', 'Port', 'Password', 'Device type', and 'Zone'. Below these fields are two sections: 'Status Information' and 'License'. The 'Status Information' section includes details like 'Last refresh', 'Product name', 'Software version', 'Bootloader version', 'Hardware version', 'Serial number', 'Buttons count', 'MAC address', and 'Uptime'. The 'License' section includes 'Licence key', 'Licence type', 'Licence key valid', and 'Remaining time'.

To add a physical device to the system configuration:

- Go to the **Devices** item in the tags.
- Call up the **Create device** context menu in the item list.
- Enter the device name, IP address and access information and select the zone.
- Press **Create** to confirm your device creation.



Note

- The device name is used for easy distinguishing of devices in lists. It does not affect the system function and is chosen by the system administrator.

Having created a device, click on **Download** to download the configuration.

Telephone Directory Setting

Use the **Phonebook** (Telephone Directory) card to set the users to be called from the selected device using the speed dial buttons. Click on a button and select a user from the list to assign the user to a specific position.

The screenshot shows the '2N Helios IP Manager' interface. On the left, there is a 'Devices' sidebar with a list of devices including 'Administrativní vchod', 'Marketing', 'Obchod', 'Servis', and 'Zadní vchod'. Below this are sections for 'Users', 'User Groups', 'Zones', 'Devices', 'Time Profiles', and 'Settings'. The main window is titled 'Zadní vchod' and contains a 'Phonebook' tab. At the top of the main window, there are tabs for 'Device', 'Phonebook', 'Buttons', 'Display', and 'Settings'. Below these tabs, there are filters for device ranges: '1 - 100', '101 - 200', '201 - 300', '301 - 400', '401 - 500', '501 - 600', '601 - 700', '701 - 800', '801 - 900', and '901 - 999'. The main area displays a grid of 100 speed dial buttons, numbered 1 to 100. Each button has a dropdown menu showing a user name, such as '1 Oddělení Obchodu', '2 Oddělení Marketing', '3 Oddělení Technické', etc., up to '21 Hora Jakub'. The interface also includes a 'Create device' button in the top right corner.



Note

- The number of telephone directory positions depends on the model and licence of the given device.

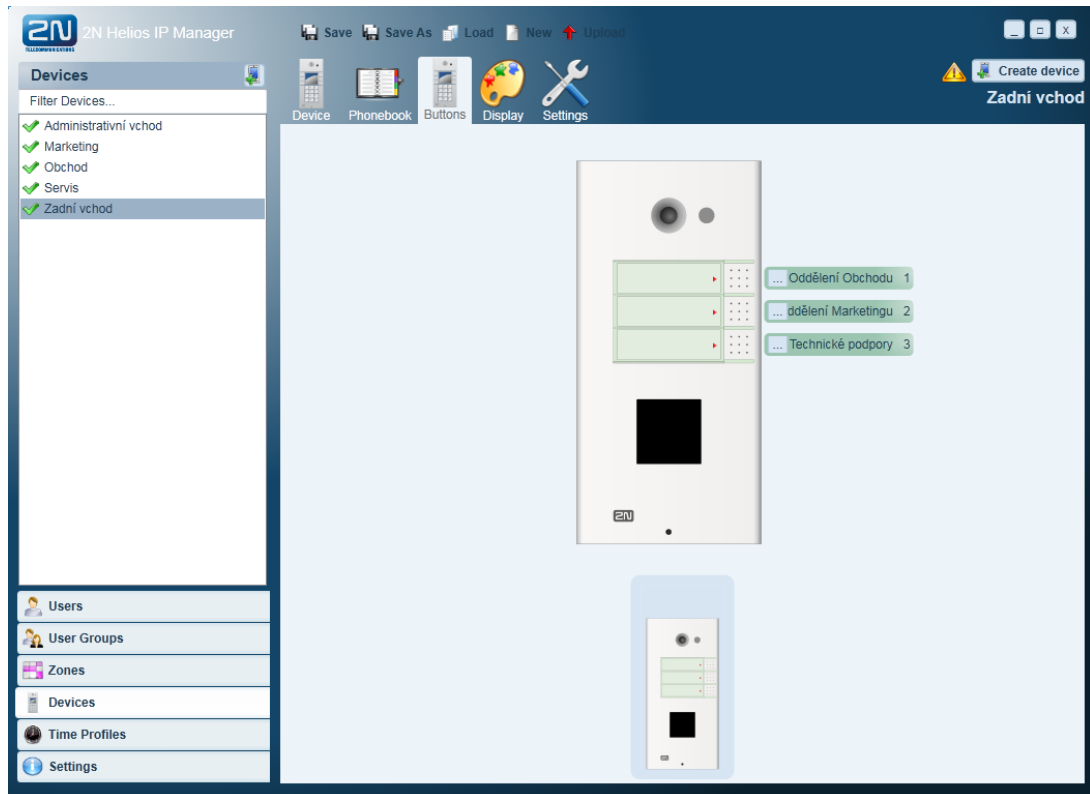


Tip

- You are advised to consider your future 2N® Helios IP system layout including extenders while configuring your telephone directory. The first six telephone directory positions are used for the 2N® Helios IP buttons and positions 7 – 54 are assigned to extender buttons.

Speed Dial Button Setting

Use the **Buttons** card to assign users to the speed dial buttons. Right click on the 2N® Helios IP image below and select the type in the context menu to add extenders and the info panel. For display-equipped models, set the speed dials for the main unit using the **Display** card.

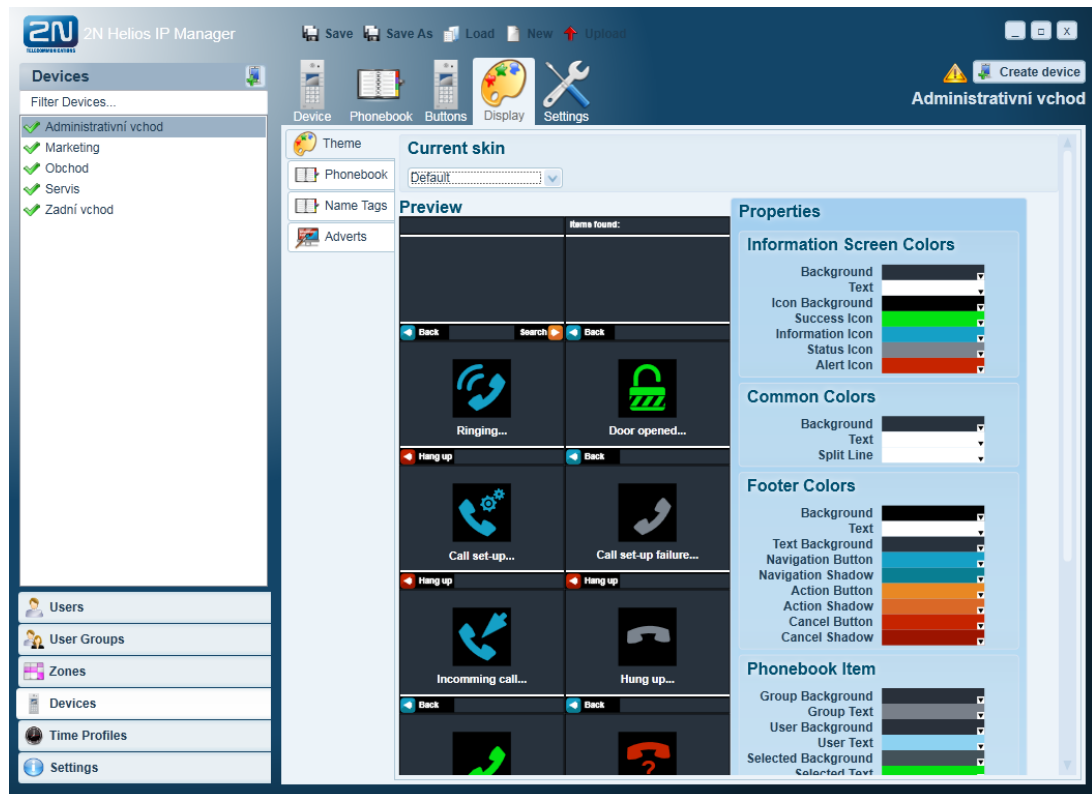


Display Setting

Use the **Display** card to set the information to be displayed by 2N® Helios IP. Use the following cards to define the display properties:

Theme Card

Use the card to set colours for the status screen elements to be displayed during calls and at rest, the default colour setup and font of the telephone directory items to be displayed.

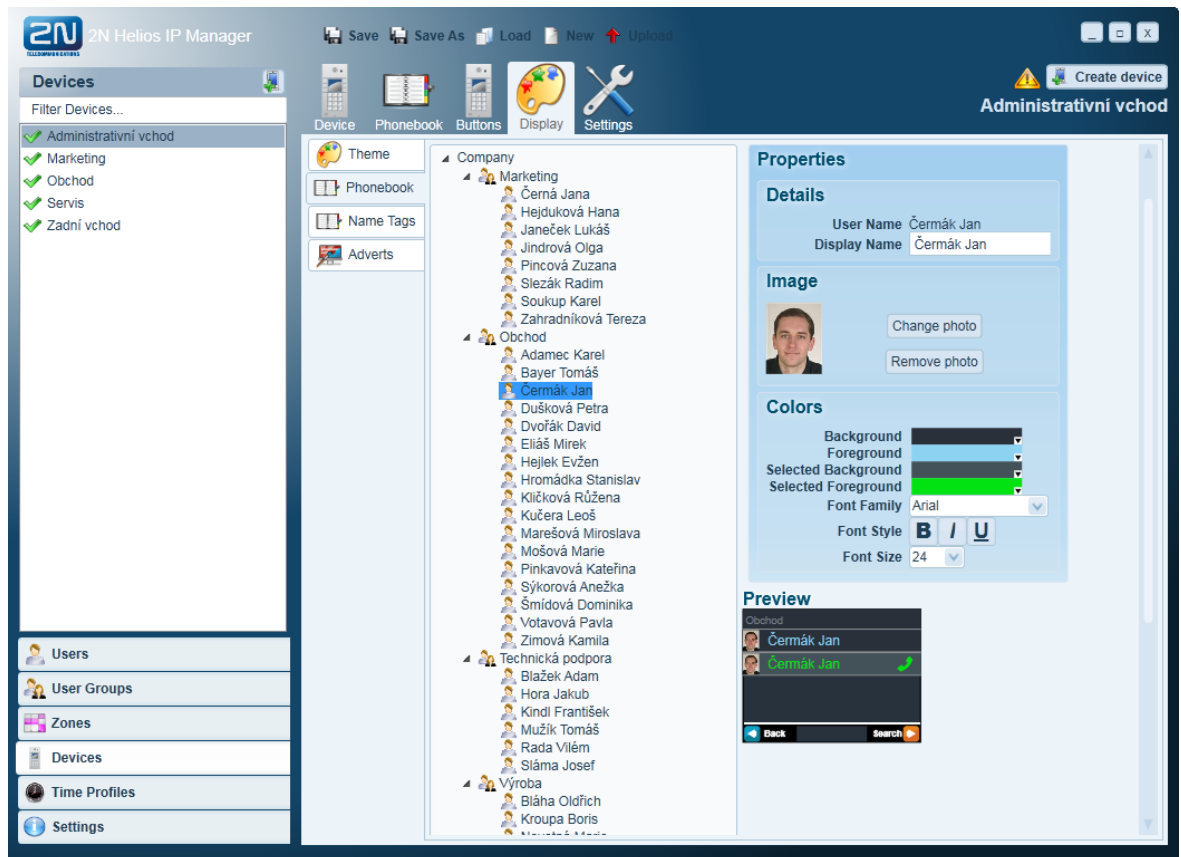


Phonebook Card

Use the card to create a telephone directory to be displayed on 2N[®] Helios IP. Add users and user groups to the list.

Set the colour scheme and fonts for each item in the **Properties**. Select the **Theme** option before adding an item to the telephone directory to enable batch setting of parameters.

Use the context menu displayed by the right mouse click to arrange and remove items. A group behaves as one item and includes users assigned to the group. In the event of changes, the telephone directory is updated automatically with new users being added to the end of the group. Use the context menu to arrange the users alphabetically.

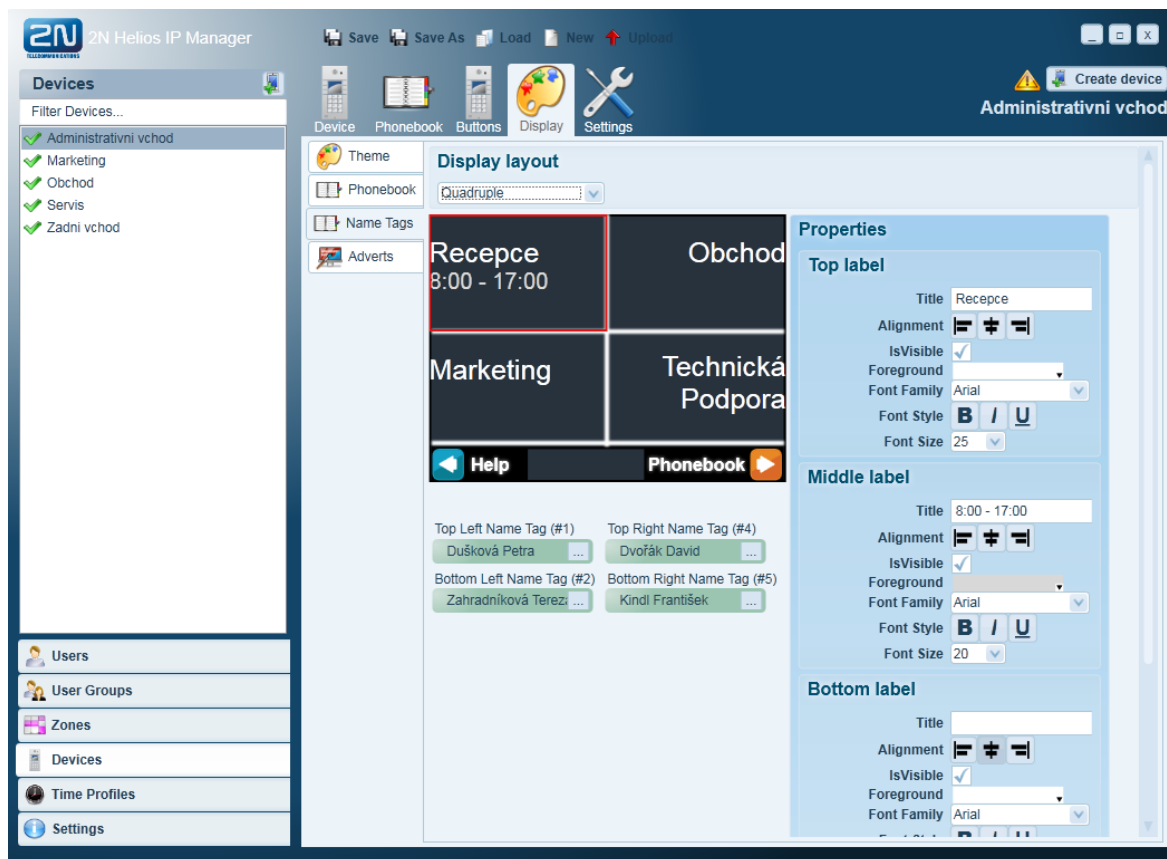


Name Tags Card

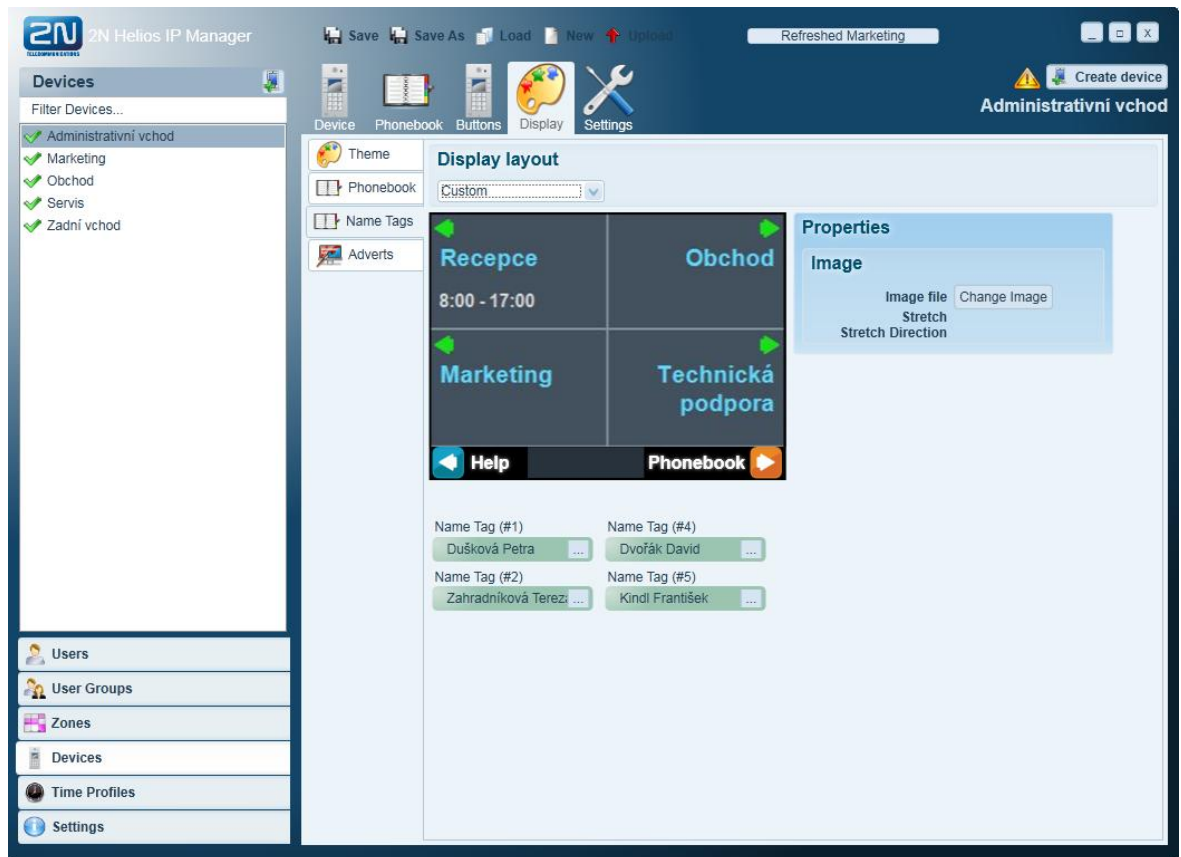
Use the card to assign users to the speed dial buttons of the display-equipped 2N® Helios IP units and set the information to be displayed. Select a layout for the name tags to be displayed, or use images of your own for the background.

Layout types:

- **Single** – one item.
- **Double** (horizontal) – two items.
- **Quadruple** – four items.
- **Custom** – four items, user-selected image in the background.

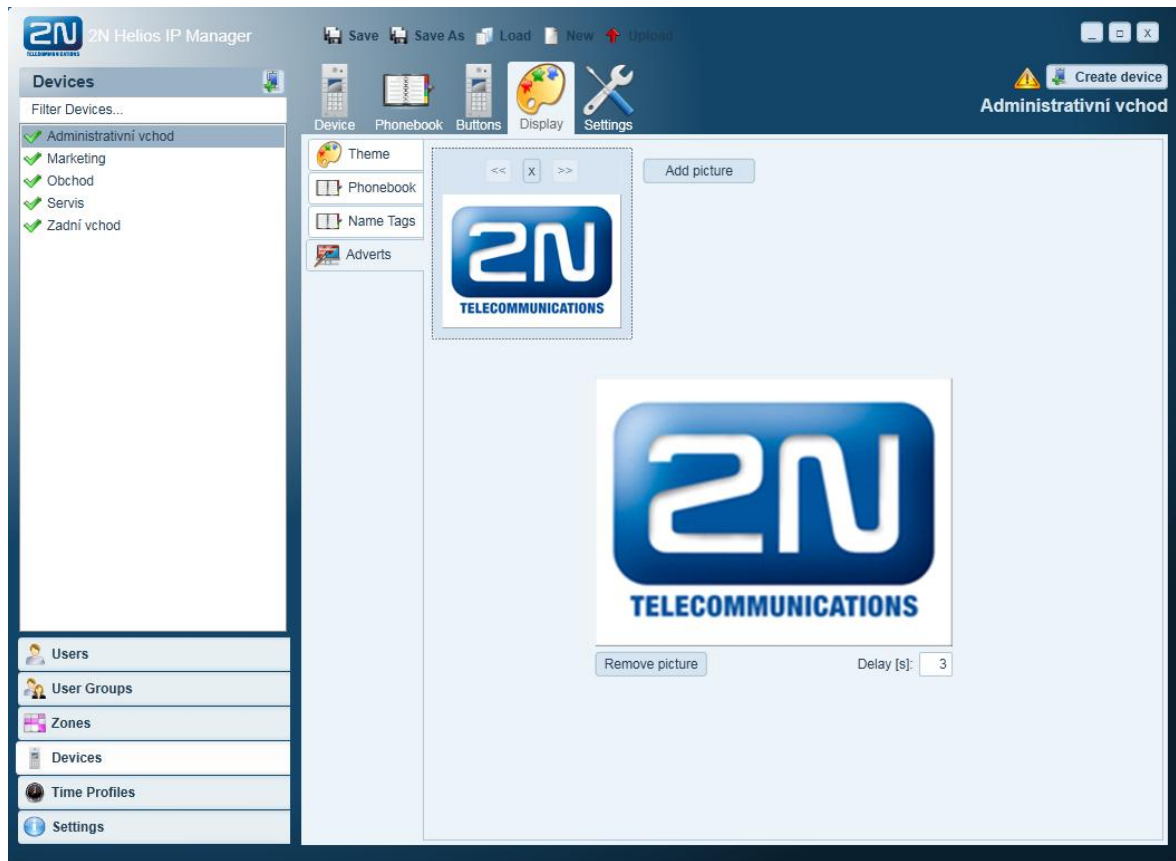


In the **Custom** layout, push the **Change Image** button to insert an image of your own. The recommended image size is 320 x 208 pixels. Any other size will be adapted automatically.



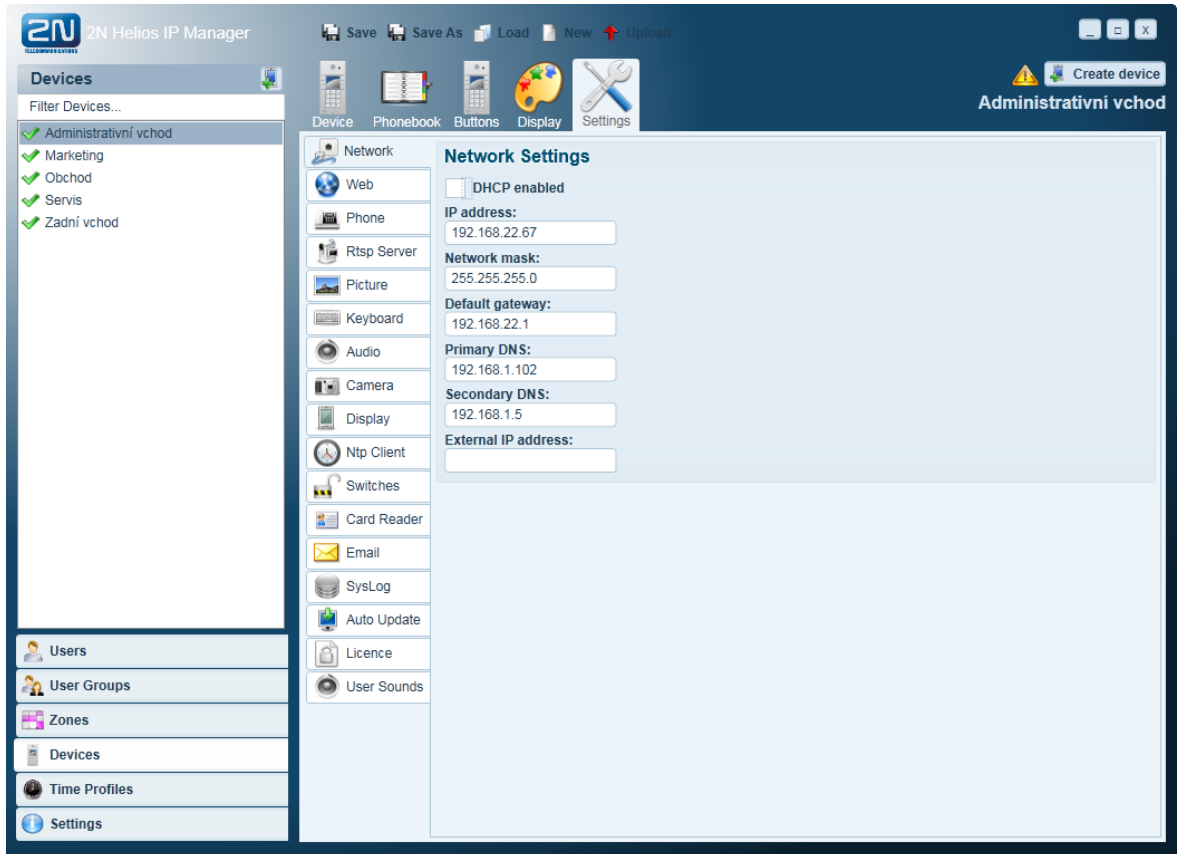
Adverts Card

2N[®] Helios IP provides a list of images to be displayed at idle time. You can add any image from your PC to the list, such as your company logo, the opening hours or an advertisement. Use a 320 x 240 pixel image to avoid automatic adaptation of the image. Select the image switching time for each image added.



Device Settings

Use the **Settings** card to set all of the 2N® Helios IP parameters. Refer to the 2N® Helios IP Configuration Manual for details.



The screenshot displays the 2N Helios IP Manager web interface. The top navigation bar includes 'Save', 'Save As', 'Load', 'New', and 'Upload' buttons. The left sidebar contains a 'Devices' section with a filter and a list of categories: Administrativni vchod, Marketing, Obchod, Servis, and Zadni vchod. Below this are 'Users', 'User Groups', 'Zones', 'Devices', 'Time Profiles', and 'Settings' sections. The main content area is titled 'Network Settings' and features a 'DHCP enabled' checkbox. The following fields are visible: IP address (192.168.22.67), Network mask (255.255.255.0), Default gateway (192.168.22.1), Primary DNS (192.168.1.102), Secondary DNS (192.168.1.5), and External IP address. A 'Create device' button is located in the top right corner.



Caution

- Make sure that the network parameter settings are correct before loading a configuration to a device.

3.4 Users

A system user means an individual using the intercom system. A system user has access to a zone or is available on a speed dial button (name label) of any intercom in the system.

The screenshot shows the '2N Helios IP Administrator' web interface. The top navigation bar includes 'Save', 'Load', 'New', and 'Upload' buttons. The main content area is titled 'User Details' for 'Čermák Jan'. On the left, there is a 'Users' list with a search filter. The 'User Details' section includes a profile picture, a 'Delete' button, and fields for 'Full name', 'Short name', and 'Email'. Below this are 'Codes' for 'Switch #1', 'Switch #2', 'Activation', and 'Deactivation'. The 'Phones' section includes fields for 'Phone 1', 'Phone 2', 'Phone 3', 'Deputy', 'Time Profile', and 'Station Address'.

To create a user:

- Go to the **Users** item in the tags.
- Retrieve the user name and abbreviated name.
- Enter the activation codes and set up a photo if required.
- Press **Create** to confirm your user creation.

One or more telephone numbers can be assigned to each user and a substitute whom the intercom will call if the user is unavailable. The address of a computer (**Station Address**) on which HipEye application has been installed can be entered.

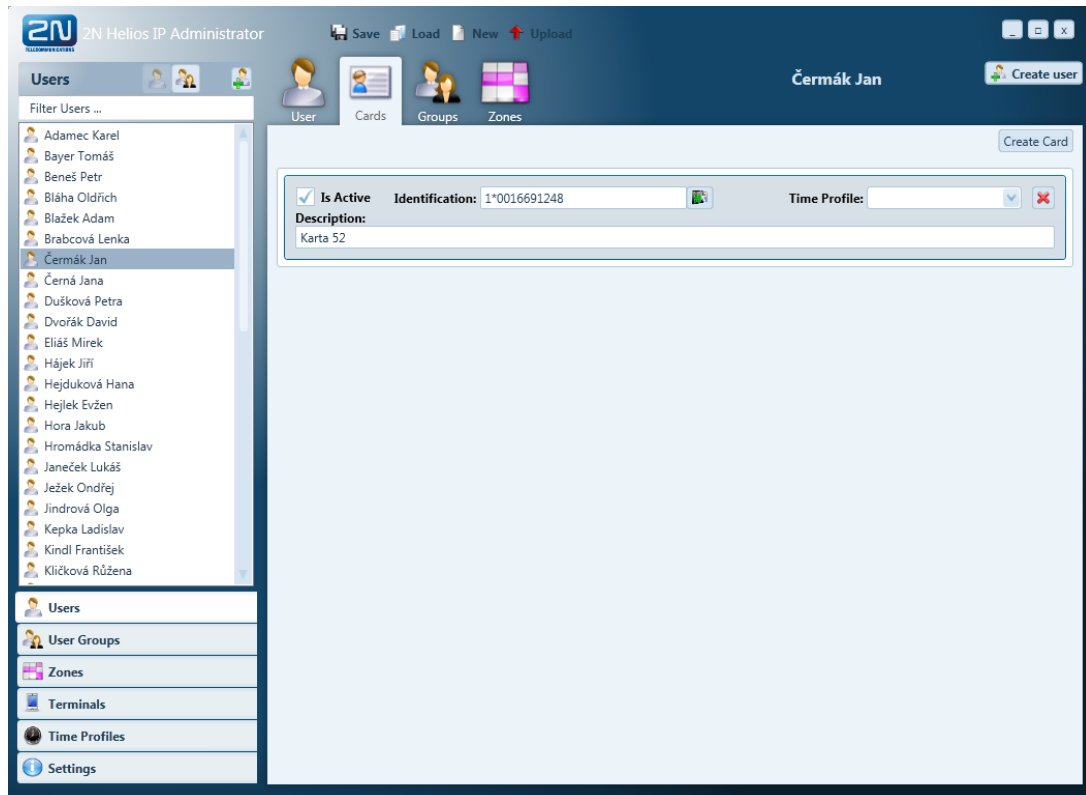


Tip

- Users can be grouped in user groups for setting of batch access rights for several users simultaneously – refer to Subs. 3.5.

Card to User Assignment

The RFID cards are used for user identification in the system. One or more RFID cards can be assigned to one user. User RFID cards are edited on each user's **Cards** card.



To create a user card using a USB card reader (Part No. 9137420E) connected to the computer:

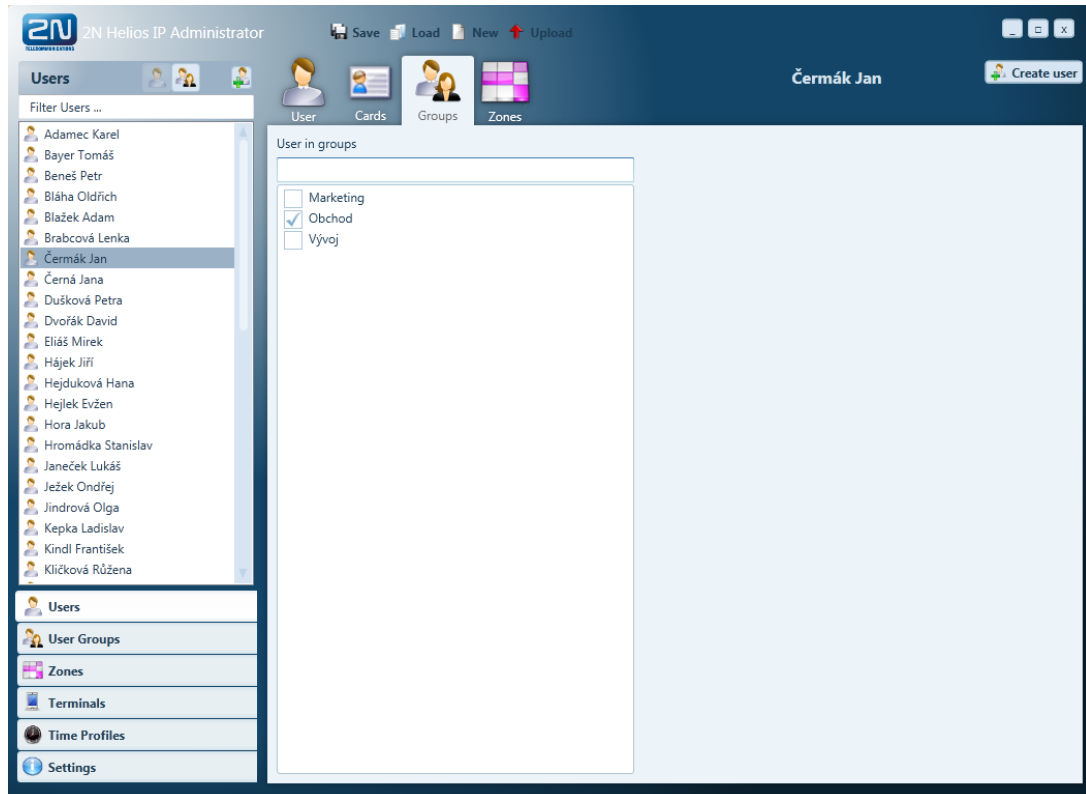
- Press **Create Card**.
- Press the green button behind the **Identification** box.
- Hold the card to the reader (the card number will be filled in including the prefix 1*).
- Press **Create** to confirm your card creation.

To create a user card by reading a card in the intercom:

- Read the card in the terminal and find its number in the web configuration interface - **Card reader / Access log**.
- Press **Create Card**.
- Fill in the card number including the prefix 0*.
- Press **Create** to confirm your user creation.

User to Group Assignment

On the **Groups** card, users can be assigned to one or several user groups. User groups are used for batch setting of access rights for several users simultaneously. To assign a user to a group, check off the box in front of the name of the relevant group.



User to Zone Assignment

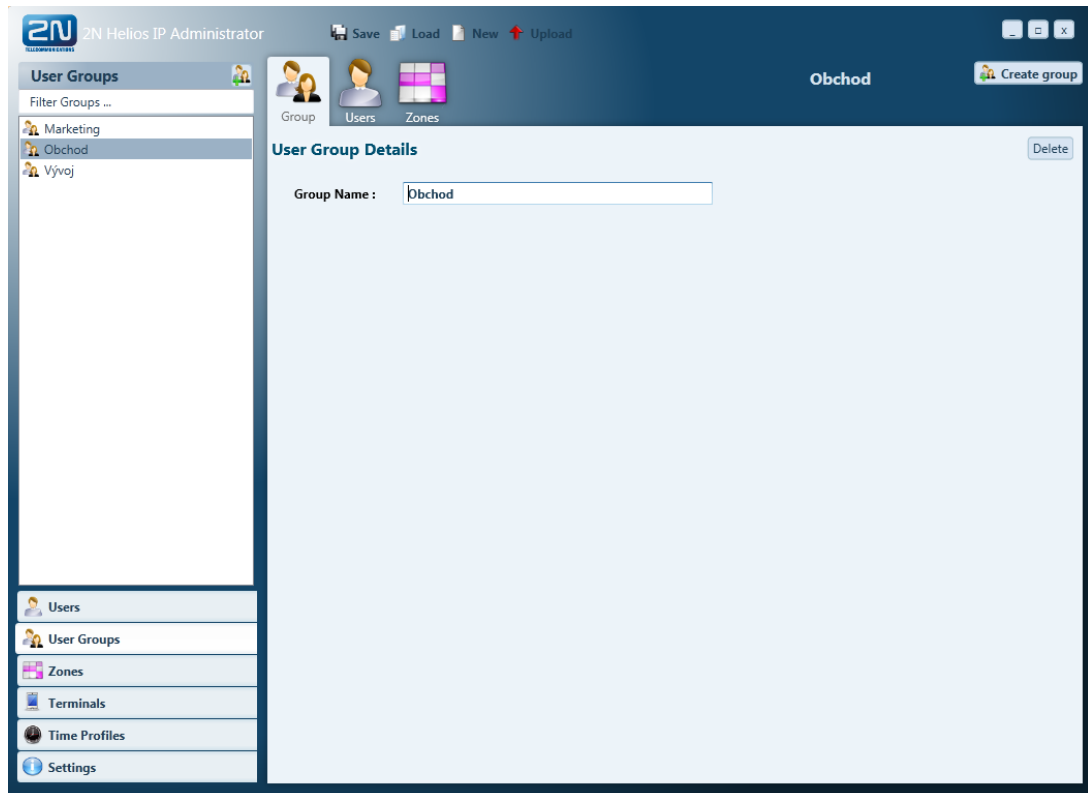
On the **Zones** card, user access rights to individual zones are defined. To access a zone, check off the box behind the name of the relevant zone. Automatic access to parent zones can be permitted by choosing **Check to allow user access to parent zones**. If access to a zone is permitted, the zone is green-shaded. If a zone is green-marked without the box being checked off, the user access to the given zone is permitted due to the user's assignment to a user group with access to the zone.

The screenshot displays the '2N Helios IP Administrator' web interface. The top navigation bar includes 'Save', 'Load', 'New', and 'Upload' buttons. The user 'Čermák Jan' is logged in, and a 'Create user' button is visible. The main interface is divided into several sections:

- Users:** A list of users is shown on the left, with 'Čermák Jan' selected. Below the list are tabs for 'Users', 'User Groups', 'Zones', 'Terminals', 'Time Profiles', and 'Settings'.
- Zones:** The 'Zones' tab is active, showing a list of 'Associated zones':
 - Administrativní budova** (green-shaded, checked)
 - Kanceláře** (green-shaded, checked)
 - Servis** (white, unchecked)
- Zone Name:** A section on the right with a checkbox labeled 'Check to allow user access to parent zones'.
- Associated groups to zone:** A text input field below the checkbox.

3.5 User Groups

Users of the 2N® Helios IP system can be divided into user groups. Such user groups allow for easier batch assigning of access rights to a great number of users. Remember to create one user group at least while making a new configuration.



To create a user group:

- Go to the **User Groups** item in the tags.
- Call up the **Create group** context menu in the item list.
- Enter the user group name.
- Press **Create** to confirm your user group creation.

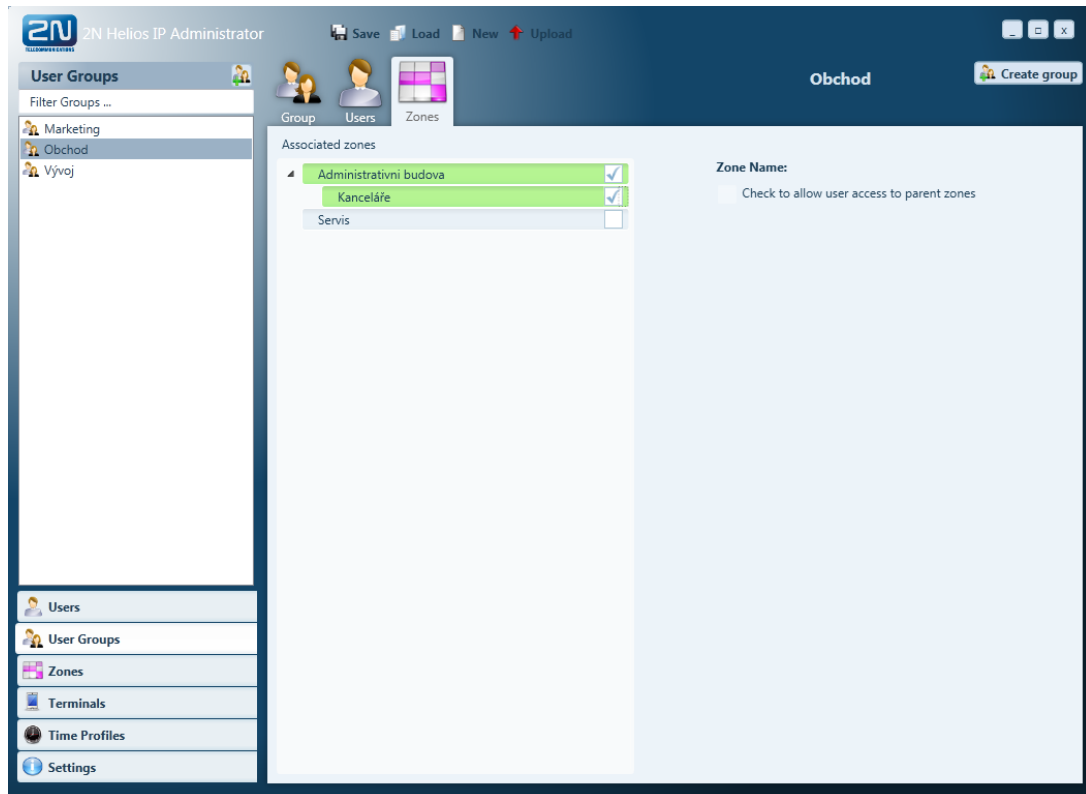
User to Group Assignment

On the **Users** card, users can be added to or removed from a user group. The list on the left shows the selected users and the list on the right shows the users that are not assigned to this group. Use the arrow buttons between the lists to move the users.

The screenshot displays the 2N Helios IP Administrator interface. The top navigation bar includes the 2N logo, the text "2N Helios IP Administrator", and buttons for "Save", "Load", "New", and "Upload". The main content area is titled "User Groups" and features a sidebar on the left with a "Filter Groups ..." search box and a list of groups: "Marketing", "Obchod" (selected), and "Vyvoj". Below the sidebar are navigation cards for "Users", "User Groups", "Zones", "Terminals", "Time Profiles", and "Settings". The main area is divided into two columns: "Users in group" and "Users not in group". The "Users in group" list contains 25 names, including Čermák Jan, Zimová Kamila, Adamec Karel, Bayer Tomáš, Blažek Adam, Dušková Petra, Dvořák David, Eliáš Mirek, Hejlek Evžen, Hora Jakub, Hromádka Stanislav, Kindl František, Kličková Růžena, Kučera Leoš, Marešová Miroslava, Mošová Marie, Mužik Tomáš, Pinkavová Kateřina, Rada Vilém, Sláma Josef, Šmídová Dominika, Sýkorová Anežka, and Votavová Pavla. The "Users not in group" list contains 25 names, including Černá Jana, Hájek Jiří, Hejduková Hana, Janeček Lukáš, Ježek Ondřej, Jindrová Olga, Kepka Ladislav, Klíma Petr, Kroupa Boris, Linková Lucie, Němec Vladimír, Novotná Marie, Pincová Zuzana, Pokorný Petr, Pospíšil Miroslav, Saláková Anna, Slezák Radim, Soukup Karel, Stejskal Marek, Talpová Ludmila, Tůma Martin, Zahradníková Tereza, Zeman Cynil, Zolotarová Marika, Beneš Petr, Bláha Oldřich, and Brabcová Lenka. Arrow buttons are positioned between the two lists to facilitate moving users.

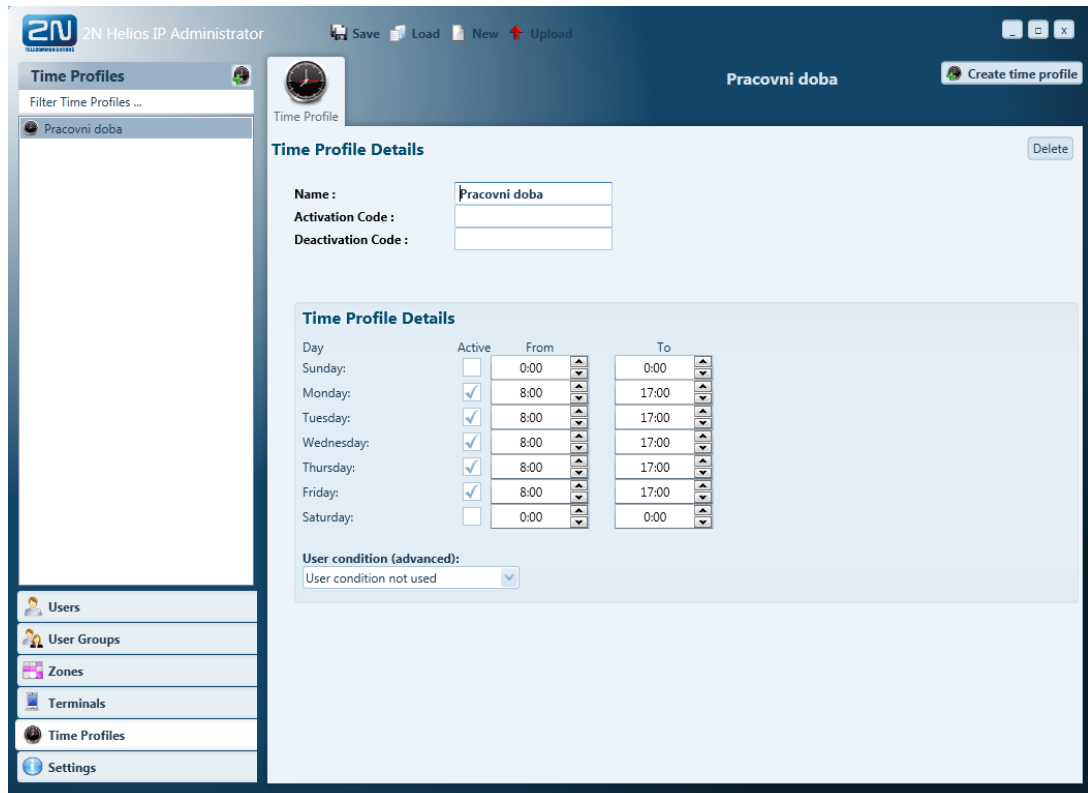
User Group to Zone Assignment

On the card **Zones**, access to one or several zones can be set for selected user groups. All users from the selected group will then have access to the zones selected. Set the zone access by checking off the button behind the zone name – the accessible zone is then marked green.



3.6 Time Profiles

Time profiles help limit the availability or validity of some 2N® Helios IP functions. With time profiles, you can control the telephone numbers, lock codes, RFID cards, etc.

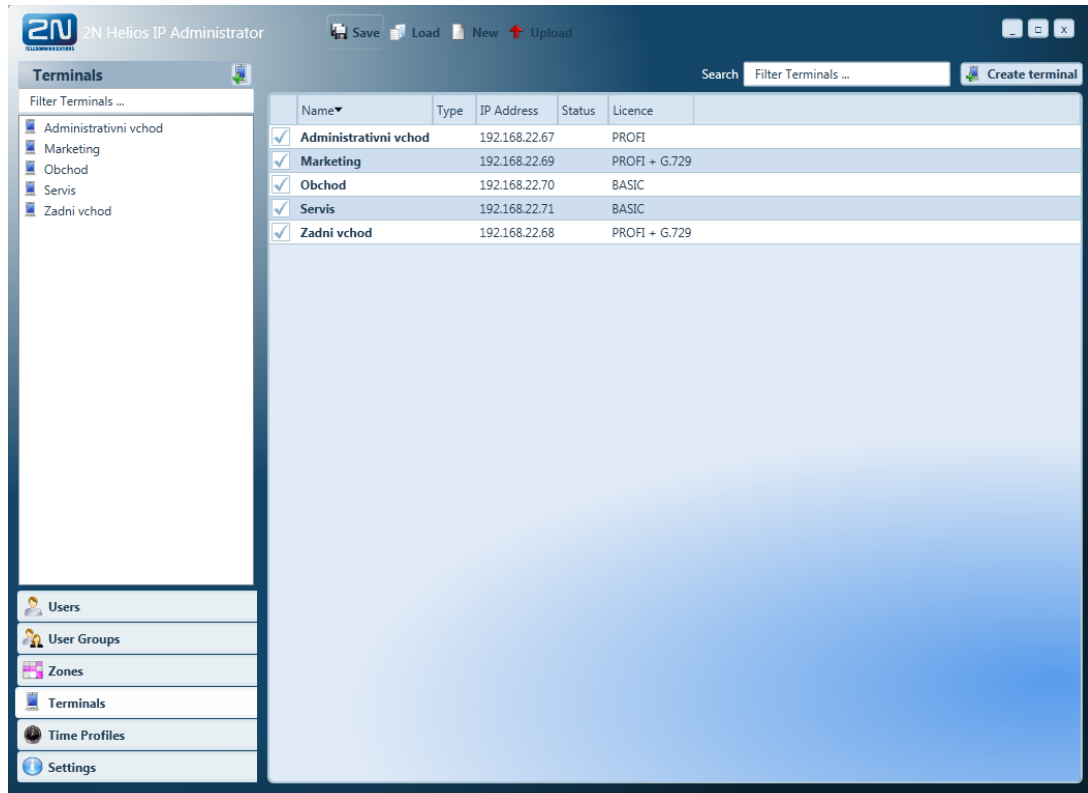


To create a time profile:

- Go to the **Time Profiles** item in the tags.
- Call up the **Create time profile** context menu in the item list.
- Enter the time profile name, application term and the activation codes if any.
- Press **Create** to confirm your time profile creation.

3.7 Uploading Data to Devices

If you want the changes you made in the system configuration to be reflected in the function of the administered intercoms, you need to send the current configuration to the devices. Click on **Upload** in the button bar to send configurations to the devices. Simply choose the devices to which the configuration shall be sent by checking off the boxes in the device list.



To upload data to devices:

- Double-click on the **Devices** tag.
- Check off all the devices to which the configuration is to be sent.
- Press **Upload** in the button bar.

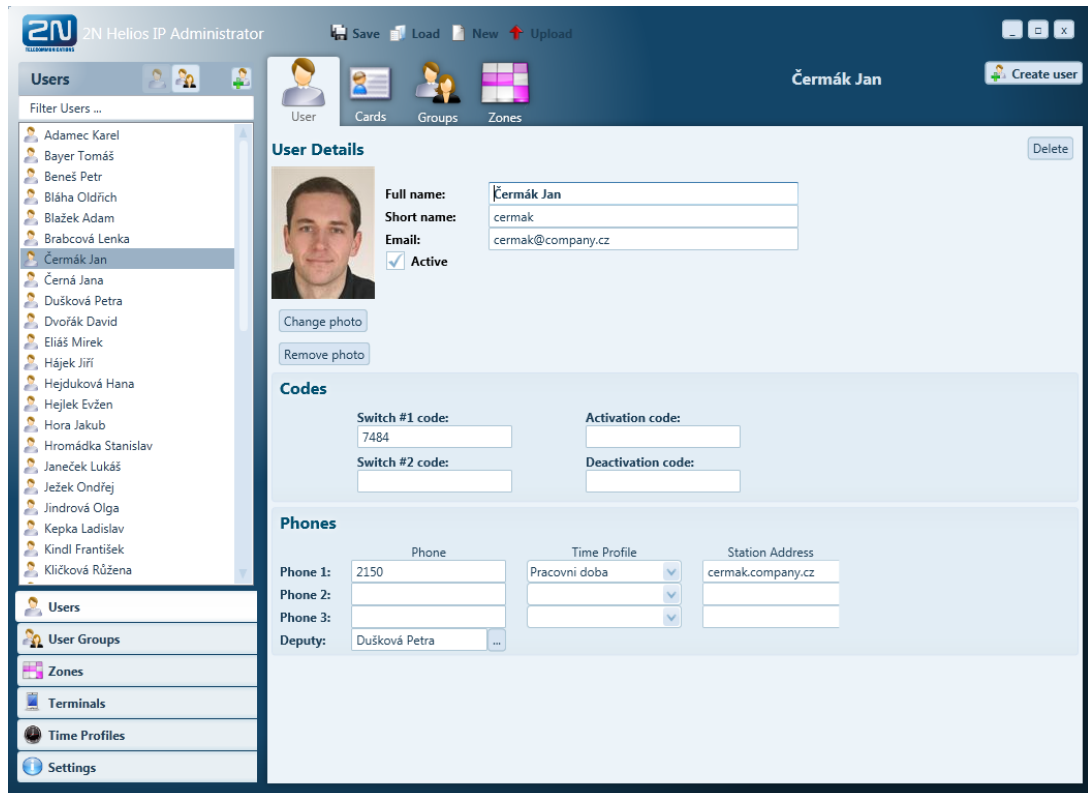


Note

- Make sure that the network parameter settings are correct before sending a configuration to a device.

3.8 System Configuration Back-Up

The system configuration is stored on the administrator's PC in the form of a configuration file (xml). Press **Save** and click on **Load** in the toolbar to save the current configuration onto the computer disk.



The screenshot displays the '2N Helios IP Administrator' web interface. The top navigation bar includes 'Save', 'Load', 'New', and 'Upload' buttons. The user 'Čermák Jan' is logged in, with a 'Create user' button visible. A sidebar on the left lists various system components: Users, User Groups, Zones, Terminals, Time Profiles, and Settings. The main content area shows the 'User Details' for 'Čermák Jan', including a profile picture, a 'Delete' button, and input fields for 'Full name', 'Short name', and 'Email'. The 'Active' checkbox is checked. Below this, there are sections for 'Codes' (Switch #1 code, Activation code, Switch #2 code, Deactivation code) and 'Phones' (Phone 1, Phone 2, Phone 3, Deputy, Time Profile, Station Address).



Caution

- The system configuration cannot be fully reproduced by loading data from each device. The complete system configuration is only saved in the configuration file on the computer of the system administrator. Please make sure you that the back-up is correct to make the configuration file available for future system modifications.