

ADMIN'S GUIDE

Software version: 2020.1

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PRECAUTIONS

It has been stated repeatedly that active participation in rehabilitation programs increases the benefit and effectiveness of therapy. The use of repetitive and sometime boring tasks produces a significant reduction in patient motivation. To combine therapy with appealing games, then, is not only a matter of creating entertainment, but a real necessity for recovery.

FEATURES & FUNCTIONS

VAST.Rehab, an innovative video capture virtual reality system, offers functional therapy using movement and position recognition proprietary technology. The touch-free (without external accessories there is no danger of contamination spreading or sterilization need) motion-activated solutions for virtual reality rehabilitation are used by clinicians in all rehabilitation health professions. The system is suitable to be used to treat a wide variety of patients, with a full library of interactive tasks and activities that can be tailored for children or seniors. VAST.Rehab supports medical professionals in following functionalities: Evaluation, Treatment, Feedback, Documentation.

PRECAUTIONS

EVALUATION

VAST.Rehab allows patients assessment, using a personally tailored appropriate configuration to the patient's ability, evaluation of results and development of treatment plans (e.g. evaluation tasks: Reach test, Angles evaluation, Stability test, Romberg's test, Unterberg's test, Dynamic test).

TREATMENT

VAST.Rehab uses a wide variety of therapeutic tasks to enable training in all rehabilitation domains:

MUSCULOSKELETAL

- Range of motion
- Strength
- Endurance
- Fitness and cardiovascular training

NEUROLOGICAL

- Movement quality (gross and fine motor skills)
- Movement awareness and proprioception
- Bilateral movements in response to bilateral stimulation

BALANCE AND EQUILIBRIUM

- Trunk and postural control
- Anticipatory postural responses
- Adequate reactions to stimuli and distractors placed in preplanned positions or random
- Crossing the midline

FEEDBACK

The augmented Feedback in VAST.Rehab provides real-time functional feedback (knowledge of results and knowledge of performance) in a motivating game like environment. By monitoring movements, it guides the patient through exercises specifically designed for therapy. It encourages and motivates the patient to achieve a higher number of repetitions, which helps improving the compliance and the therapy outcome. The exercises are adjustable according to the patient's needs and progress, and therefore provide a challenging and effective therapy.

DOCUMENTATION

VAST.Rehab software captures the patient's training activity and progress providing relevant documentation about the therapy process and the patient's compliance. Furthermore, the stored documentation offers information such as training accuracy, duration and frequency. Allowing accurate monitoring of the patient's training progress, the VAST.Rehab documentation supports clinical decision making. The Therapist in charge has the sole responsibility for a rehabilitation treatment and decides whether a patient is fit for a specific treatment. In particular, the therapist must weigh in each individual case possible risks and side-effects of the treatment against the expected benefit. In addition, the patient's individual situation plays just as important a role as the basic risk assessment for specific patient groups. The person in charge of using the system is responsible to adapt the training sessions and the course of therapy to the patient's abilities. Being a scientific discipline, medicine and rehabilitation are subject to constant advances of knowledge and treatment principles. The therapist in charge must continually keep his knowledge up-to-date by reading the latest scientific literature and must monitor changes in use recommendations during the course of treatment.

PRECAUTIONS

VAST.Rehab is a medical device and must be used in strict adherence to this document and software manuals. Failure to do so may result in serious personal injury. It is strongly recommended to regularly check VAST.Rehab website for the latest available information. Please contact if you have any question.

VAST.Rehab is to be used only under the supervision of qualified medical personnel. However, VAST.Rehab can be in certain conditions marketed for home use and must be strictly used according to the recommendations of your medical care provider who is knowledgeable about your specific needs. Read this document and software manuals for appropriate product designation. Failure to obtain and follow the recommendations of your medical care provider may result in serious personal injury.

This document provides details about a medical product which may not be available in all countries and may not have received approval or market clearance by all governmental regulatory bodies throughout the world. Nothing herein should be construed as a solicitation or promotion of the product or of an indication of any specific use for the product which is not authorized by the laws and regulations of the country where the reader of this information resides.

PRECAUTIONS

VAST.Rehab purpose is to support functional therapy for patients who have lost the function of or have restricted function in their body or cognitive functions caused by cerebral, neurogenic, spinal, muscular or bone-related disorders. Considering the contraindications and every patient's individual profile, the device is used in the case of:

- Cerebrovascular Accidents
- Multiple Sclerosis
- Cerebral Palsy
- Parkinson's Disease and Extrapyrarnidal Syndromes
- Brain-tumor operations
- Spinal cord injuries
- Traumatic brain injury
- Muscular atrophy
- Deconditioning - Muscle weakness due to lack of mobility
- Endoprosthesis for hip, knee, elbow and shoulder joints
- Following stable fractures of vertebra and/or extremities
- Limb amputations with or without prosthesis
- Balance and Equilibrium disturbances

Just as for any other therapy, the therapist in charge is always responsible for the indication. Functional training with VAST.Rehab is not possible or indicated in every case. In general, the device must not be used in the following cases to avoid causing harm to the patient. The following precautions must therefore be observed in particular:

- Severe osteoporosis
- Contractures affecting the relevant extremity
- Skin lesions in the area of the relevant extremity
- Joint subluxation or severe pain in the target joint
- Severe spasticity
- Severe spontaneous movements, e.g. ataxia, dyskinesia, myoclonic jerks
- Severe postural instability
- Cardiac arrhythmia, hypotension or severe hypertension
- Confused or non-cooperative patients
- Severe cognitive deficits
- Patients requiring isolation due to infections
- Severe visual problems (patient is not able to see displayed elements on the computer screen)

PRECAUTIONS

The following contraindications must therefore be observed in particular:

- Not controlled epileptic seizure within the past two years, or photosensitive patients
- Retinal disease which may be exasperated by watching video games
- Bone instability (non-consolidated fractures in vertebrae or extremities)
- Osteomyelitis or other inflammatory/infectious diseases
- Bone Cancer, including spinal tumors or metastases to vertebrae or joints
- Pronounced, fixed contractures affecting the relevant extremity
- Open skin lesions in the area of the relevant extremity
- Non-stable vital functions: Pulmonary or cardio-circulatory contraindications
- Spondylolisthesis (second degree or higher) or with neurological signs

PRECAUTIONS

The above list does not claim to be exhaustive. In case of patients with chronic diseases and/or patients with illnesses coexisting with the one in which therapy VAST.Rehab's support is used and/or patients who have been immobile for a long period of time, special attention is required and short training sessions are recommended to begin with. An over-reaction is expected from these patients if training sessions are too long. On the other hand, patients often tend to have a certain euphoric reaction after the initial treatment, and want to have longer and/or more frequent training sessions. This can result, in the case of the patients described above, in excessive strain being exerted on ligaments, tendons and joints.

The decision as to whether a patient is suitable for treatment always comes under the remit of the therapist in charge, who has sole medical responsibility for the treatment. As part of this, he must evaluate in particular, in each individual case, possible risks and side-effects of the treatment against the benefit gained from it. In addition, the patient's individual situation plays just as important a role as the basic risk assessment for specific patient groups.

INFORMATION CLAUSE FOR VAST.REHAB

PRECAUTIONS

According to art. 13 section 1 and 2 of the General Data Protection Regulation dated on 27 April 2016, we inform you that:

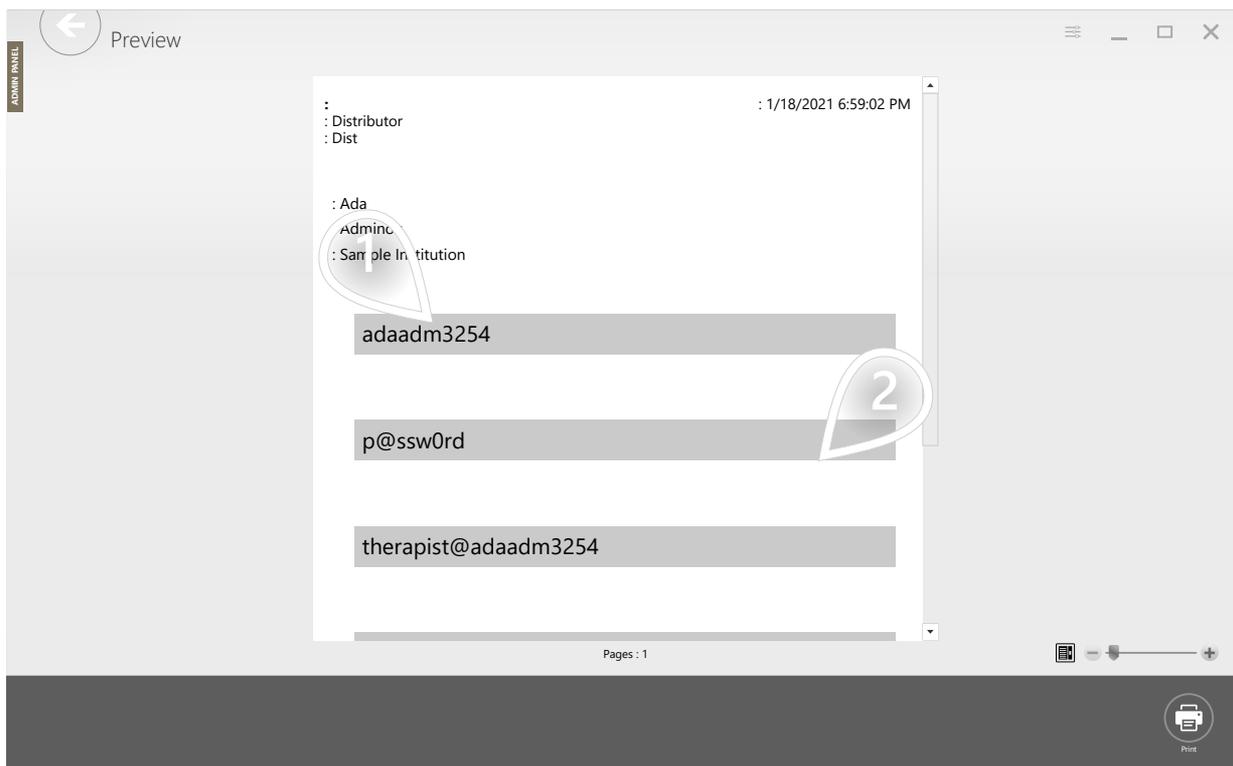
- The administrator of your personal data is BRONTES PROCESSING Sp. z o.o. Ul. Przewozowa 32, 44-100 Gliwice, Poland.
- Your personal data is processed for the purpose of establishing an online account in the VAST.Rehab software platform and for statistical purposes. The processing takes place on the basis of Article 6 (1b) and (1c) and article 9 (1h) of the GDPR.
- The recipient of your personal data will be the entities authorized by the controller of the personal data, entities authorized by law and external entities under signed contracts.
- Your personal data will be kept for a period consistent with applicable law.
- You have the right to access your personal data and the right to rectify, delete, limit processing, the right to data transfer, the right to object, the right to withdraw consent at any time without affecting the legality of processing, which was made on the basis of consent before its withdrawal.
- You have the right to lodge a complaint with the supervisory body when you feel that the processing of personal data concerning you violates the provisions of the General Data Protection Regulation of 27 April 2016.
- Providing personal data is a prerequisite for the purpose of processing. If you do not provide your personal information, it will not be possible to process it.
- Your personal data will not be subject to automated decision making or profiling.

THE ADMINISTRATOR ROLE IN VAST.REHAB

INTRODUCTION

The VAST.Rehab Administrator is a person in the institution responsible for manage Patient Station subscriptions, control home therapy time packages, control orders from patients and orders to distributor and create and manage therapists accounts.

You will receive your admin's login and password from your distributor. Sample therapist account will be created automatically and you will receive login and password for this account as well. When your account will be ready, you will get a sheet of paper or pdf file with account details.



- 1 Admin's login and password. Password can be changed in VAST.Rehab Admin's Panel.
- 2 Sample therapist's account login and password.

HOW TO INSTALL VAST.REHAB ADMINISTRATOR PANEL?

INTRODUCTION

All our applications are available in Microsoft Store. You can simply search for "VAST.Rehab" and the list of available apps will be displayed. You can also paste the following URL to your web browser:

- <https://www.microsoft.com/store/apps/9NCQJ319TPVW>

HARDWARE REQUIREMENTS

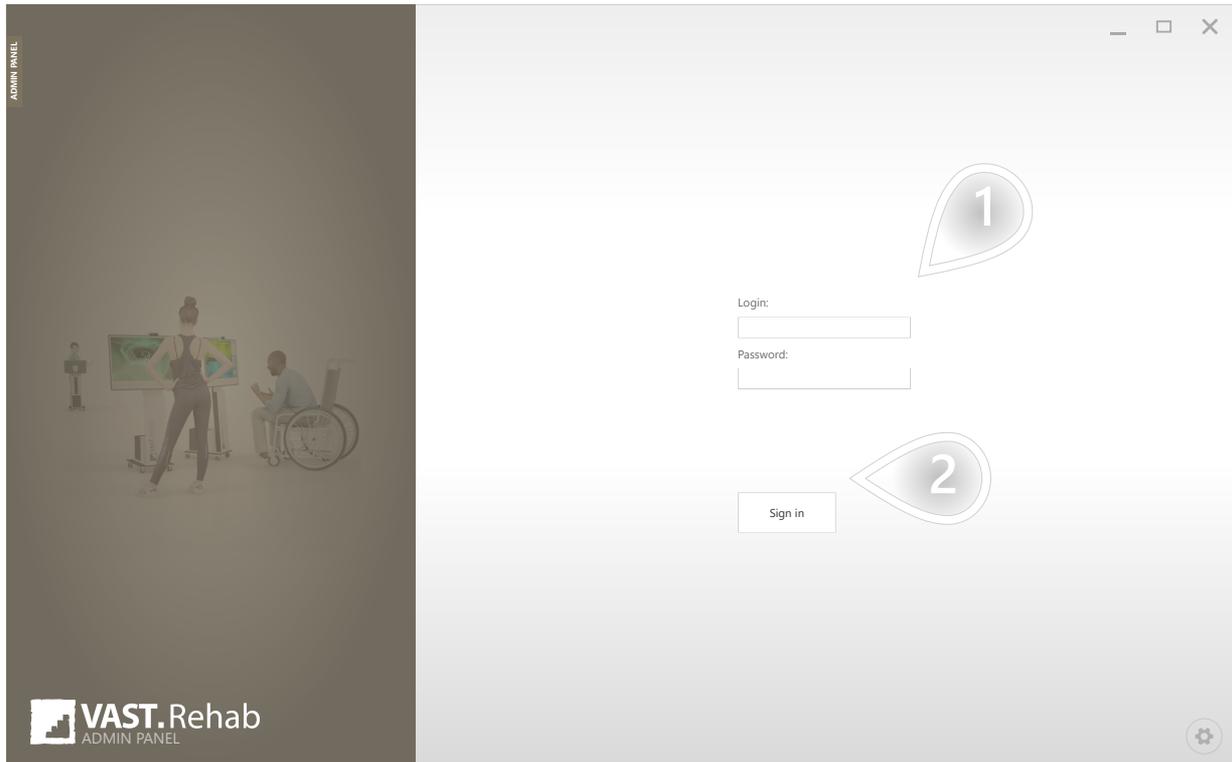
INTRODUCTION

WHAT IS NEEDED?

- Windows 10
- Intel i3 CPU or better
- 8 GB RAM

LOGGING IN

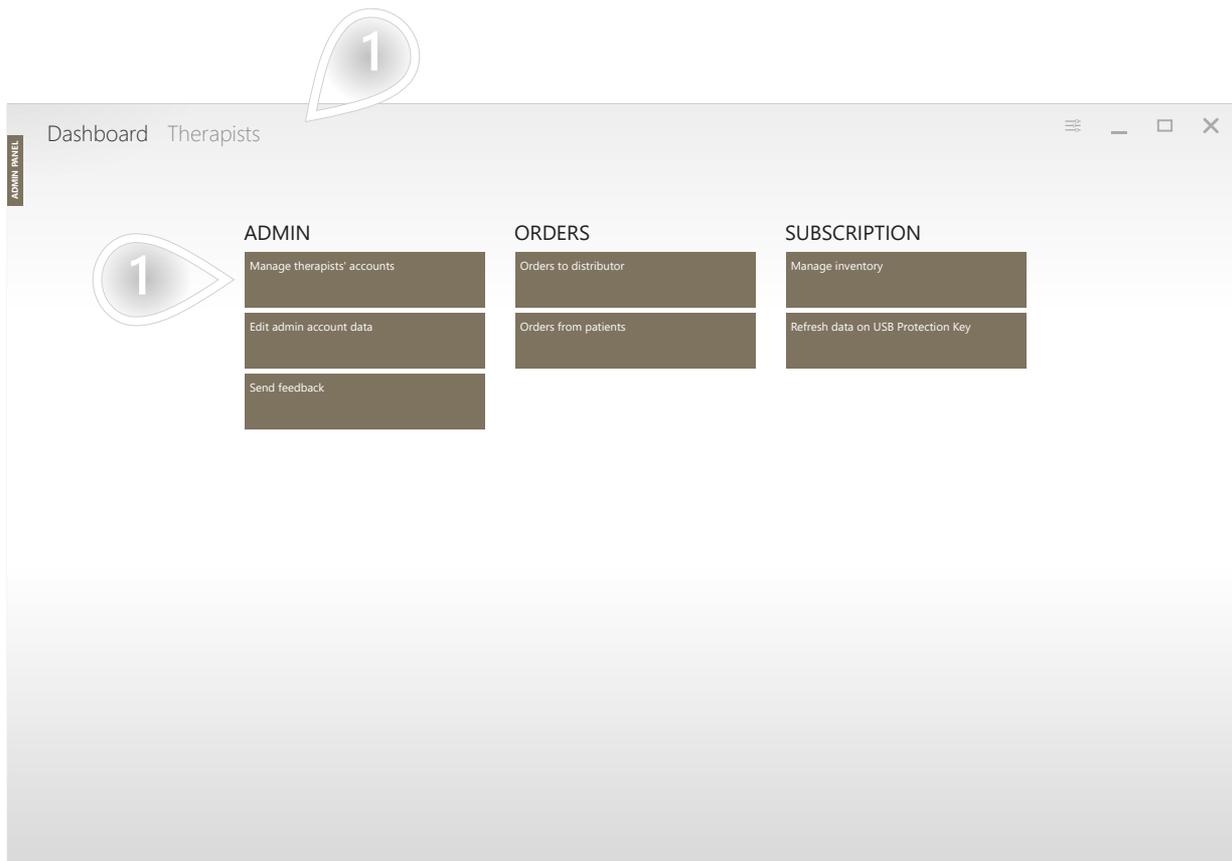
VAST.REHAB ADMIN'S PANEL



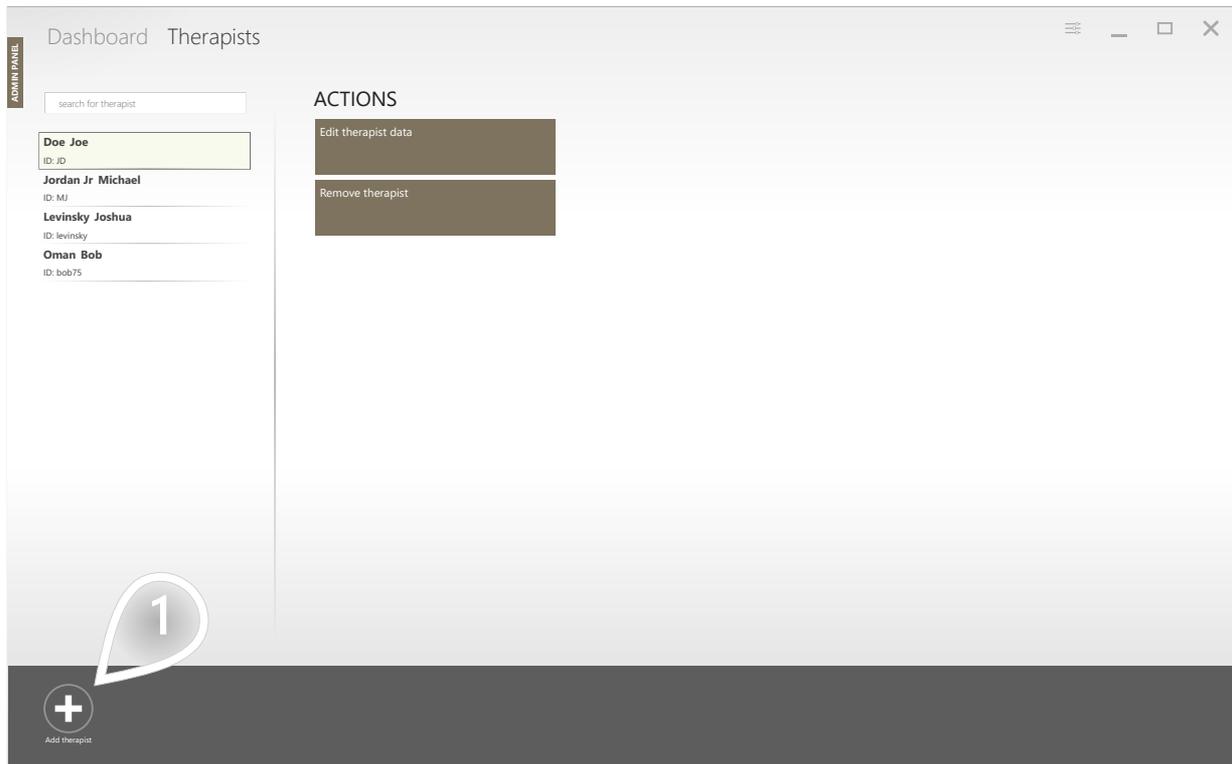
- 1 Type Administrator's login and password in marked forms.
- 2 Click the 'Sign in' button to enter the Admin's Panel main view.

MANAGE THERAPISTS ACCOUNTS

VAST.REHAB ADMIN'S PANEL



- 1 Click the 'Manage therapists' accounts' or the 'Therapists' button to enter the Therapists database main view.



- 1 Click the 'Add therapist' button to add new Therapist's account and enter the therapist adding main view.

ADMIN PANEL

Manage therapist

MARIO ROBERTS

Internet server account
 Local server account

1

2

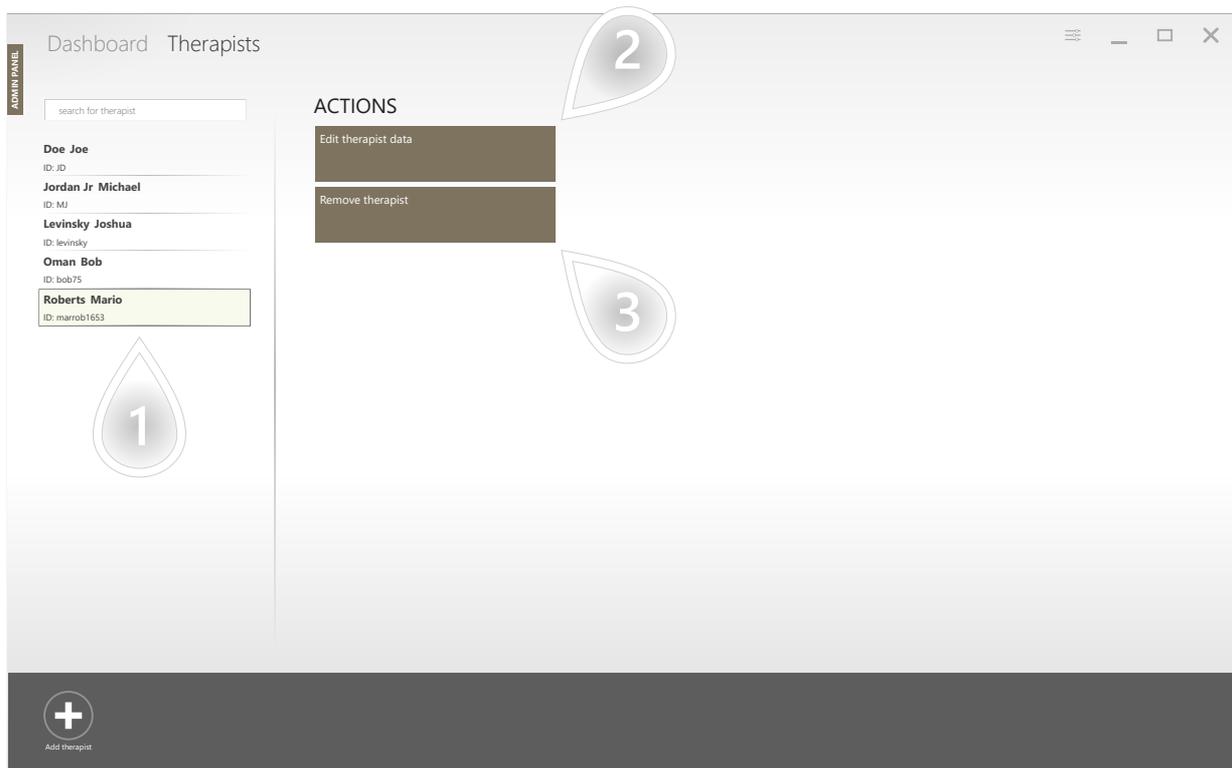
3

4

Generate

Save

- 1 Choose correct connection's type, compatible with the VAST.Rehab connection type in your institution.
- 2 Fill the forms with correct data. Forms marked with the star must be filled to create new account.
- 3 Click the 'Generate password' button if you want to use random password.
- 4 Click the 'Save' button to create a new account.



- 1 Mark one therapist's account by clicking on it. It will be highlighted.
- 2 Click the 'Edit therapist data' button if you want to edit marked therapist account's data.
- 3 Click the 'Remove therapist' button if you want to remove marked account. After you click it a confirmation window will be displayed – after you click the 'Yes' button marked account will be removed.

ADMIN PANEL

Manage therapist

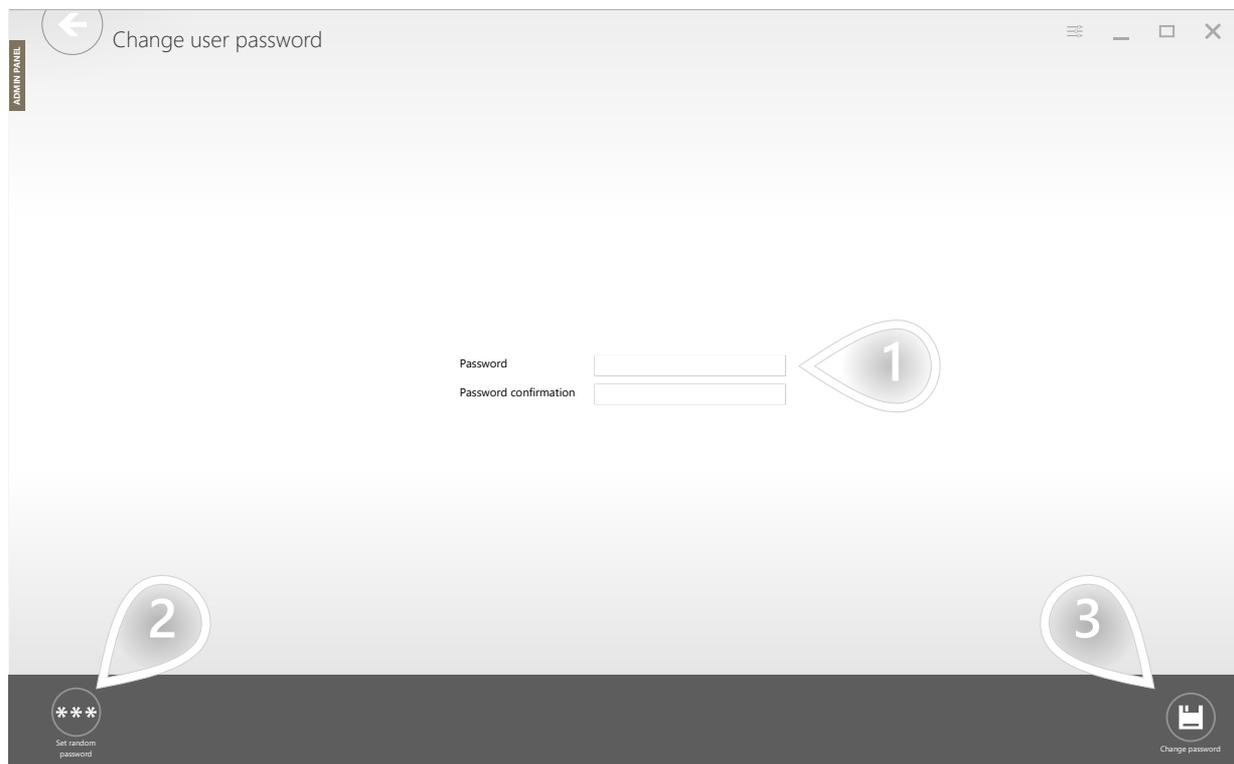
MARIO ROBERTS

First name*	Mario
Last name*	Roberts
Login*	marrob1653
Password change reminder	disabled
Language	
Mobile	0098765432
Phone	
E-mail	therapist@therapist.com

Change password

Save

- 1 Choose the account's language from the dropdown list.
- 2 Change or add account's information.
- 3 Click the 'Change password' button if you want to change the account's password. You will be moved to the change password view you can check on next page of this guide.
- 4 Click the 'Save' button if you want to save changes you made.

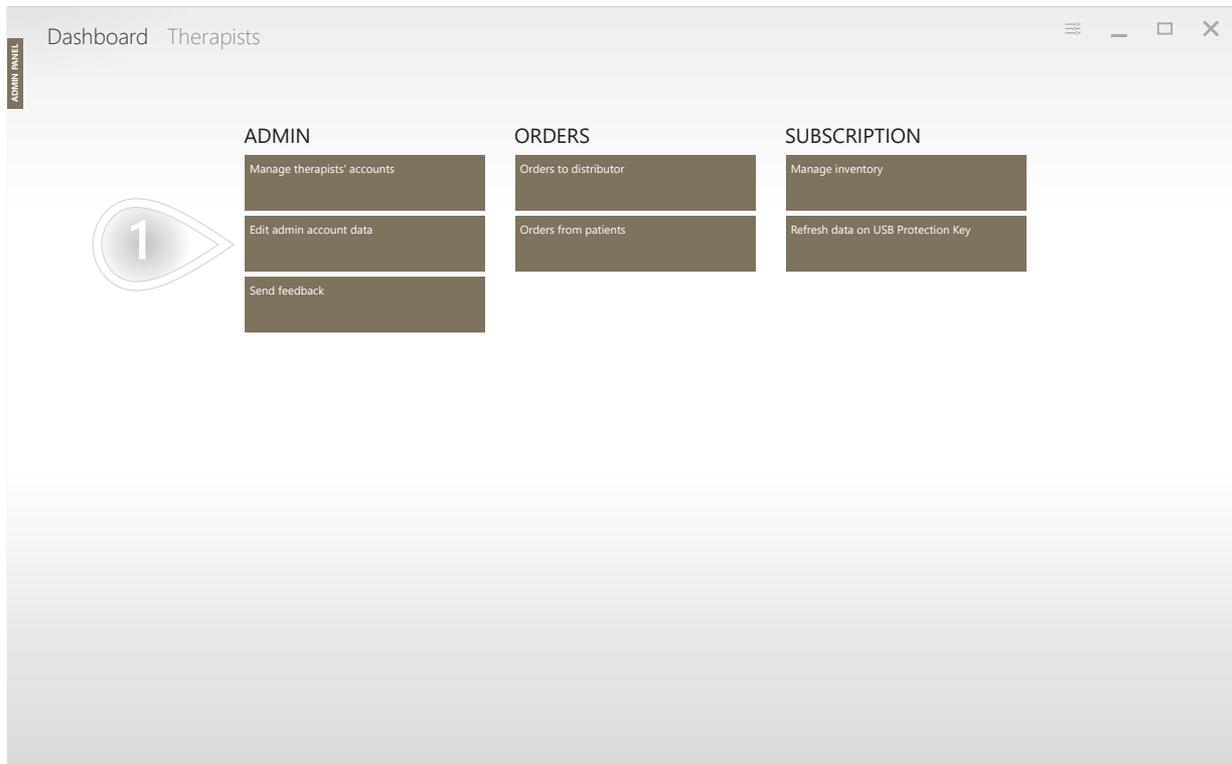


- 1 Type new password and confirm it in marked forms or...
- 2 ... if you want to use random password generated by system click the 'Random password' button.
- 3 Click the 'Change password' button to save changes. You will be moved to the previous view of account's data.

MANAGE ADMINISTRATOR'S ACCOUNT

1/2

VAST.REHAB ADMIN'S PANEL



- 1 Click the 'Edit admin account data' button if you want to change the Admin account's data.

Manage admin
ADA ADMINOV

ADMIN PANEL

First name*	Ada	Mobile	0012345679
Last name*	Adminov	Phone	
Institution name*	Sample Institution	E-mail	adminow@therapist.com
Login*	adaadm3254	Address	
Language*		City	
		Postal code	
		Department	
		Country*	Poland (Polska)

Change password

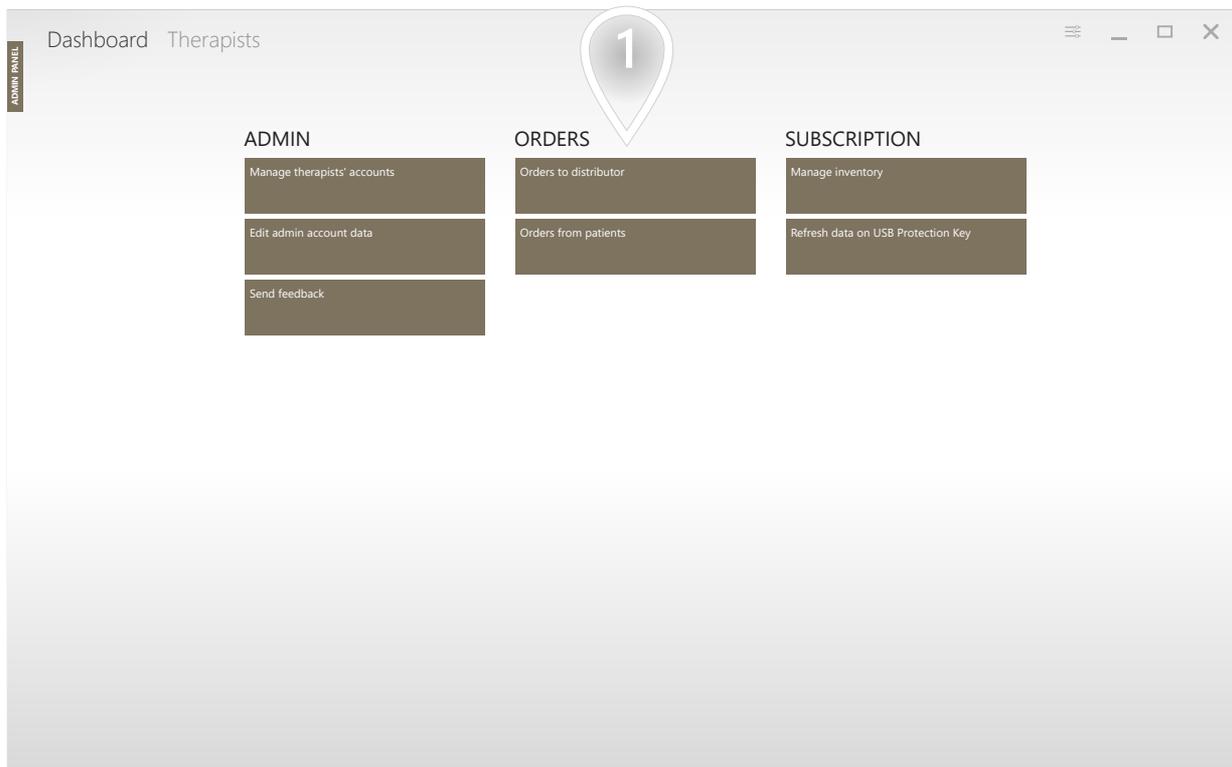
Save

- 1 Choose the account's language from the dropdown list.
- 2 Change or add account's information.
- 3 Click the 'Change password' button if you want to change the account's password.
- 4 Click the 'Save' button if you want to save changes you made.

ORDERS TO DISTRIBUTOR

1/3

VAST.REHAB ADMIN'S PANEL: ORDERS CONTROL

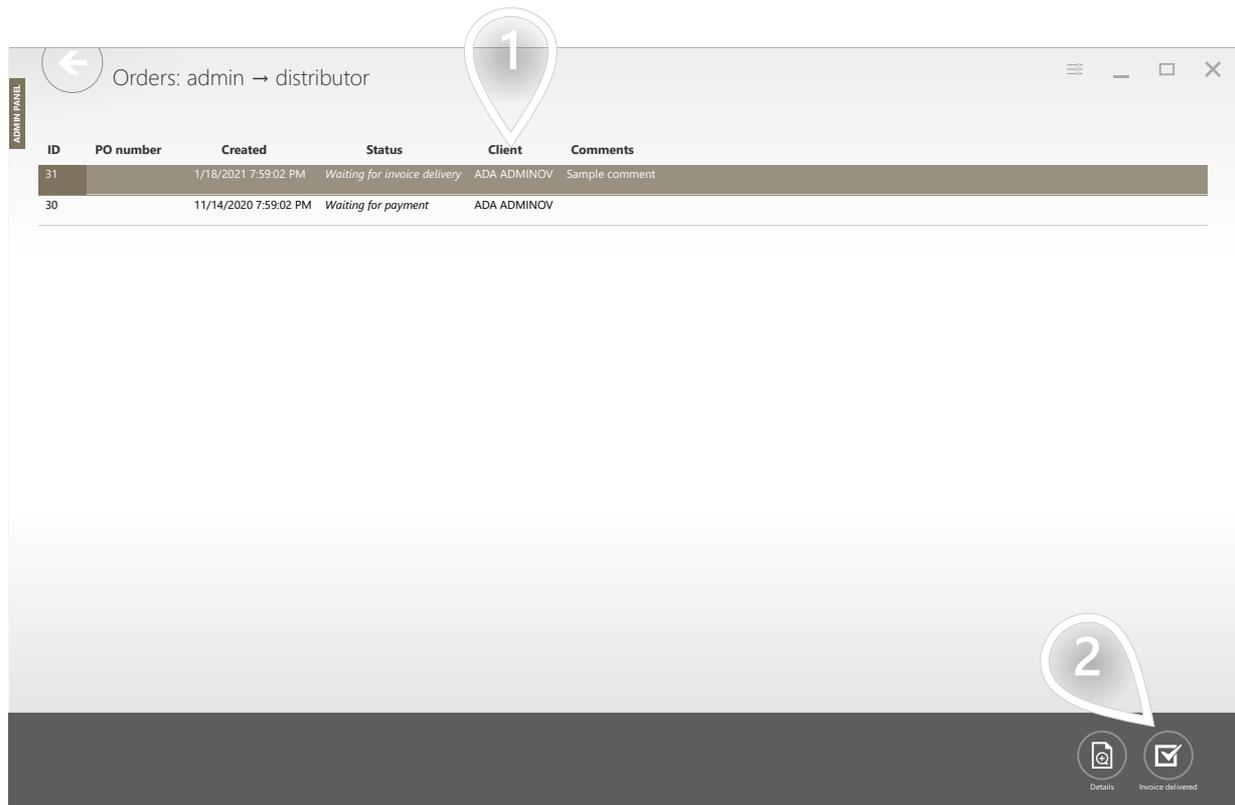


- 1 Click the 'Orders to distributor' button if you want to check the orders to distributor.

ORDERS TO DISTRIBUTOR

2/3

VAST.REHAB ADMIN'S PANEL: ORDERS CONTROL



- 1 Choose the order you want to check and click on it to highlight it.
- 2 Click the 'Details' button if you want to check details of highlighted order.

In this view you can check the chosen order details, invoice/proforma number connected with this order and read comments from distributor about the order.

ADMIN PANEL

Order details

Client: ADA ADMINOV (adaadm3254) **Comments:** Sample comment

Vendor Id: dardist6546

Status: Waiting for invoice delivery

Created: 1/18/2021 7:59:02 PM

Status changed: 1/18/2021 7:59:02 PM

Invoice number:

Proforma number:

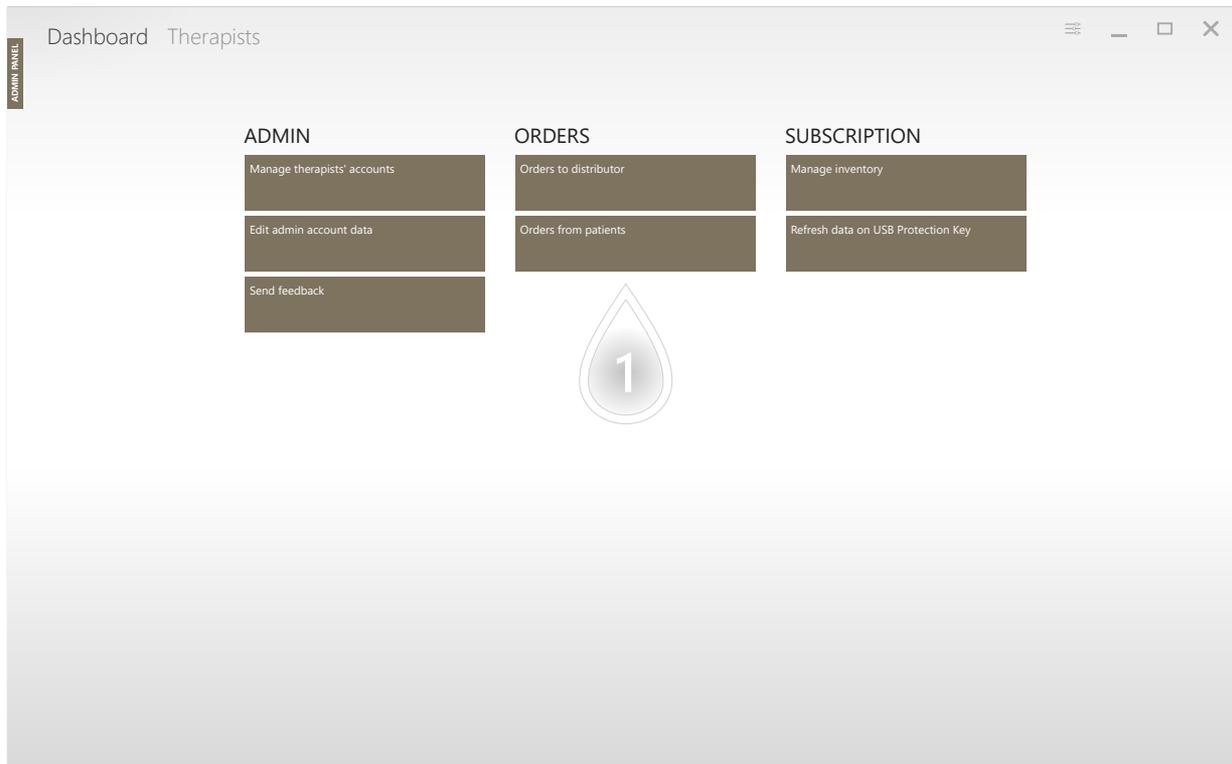
PO number:

ID	Product name	Type	Quantity
1	Home therapy time	online	30

ORDERS FROM PATIENTS

1/3

VAST.REHAB ADMIN'S PANEL: ORDERS CONTROL

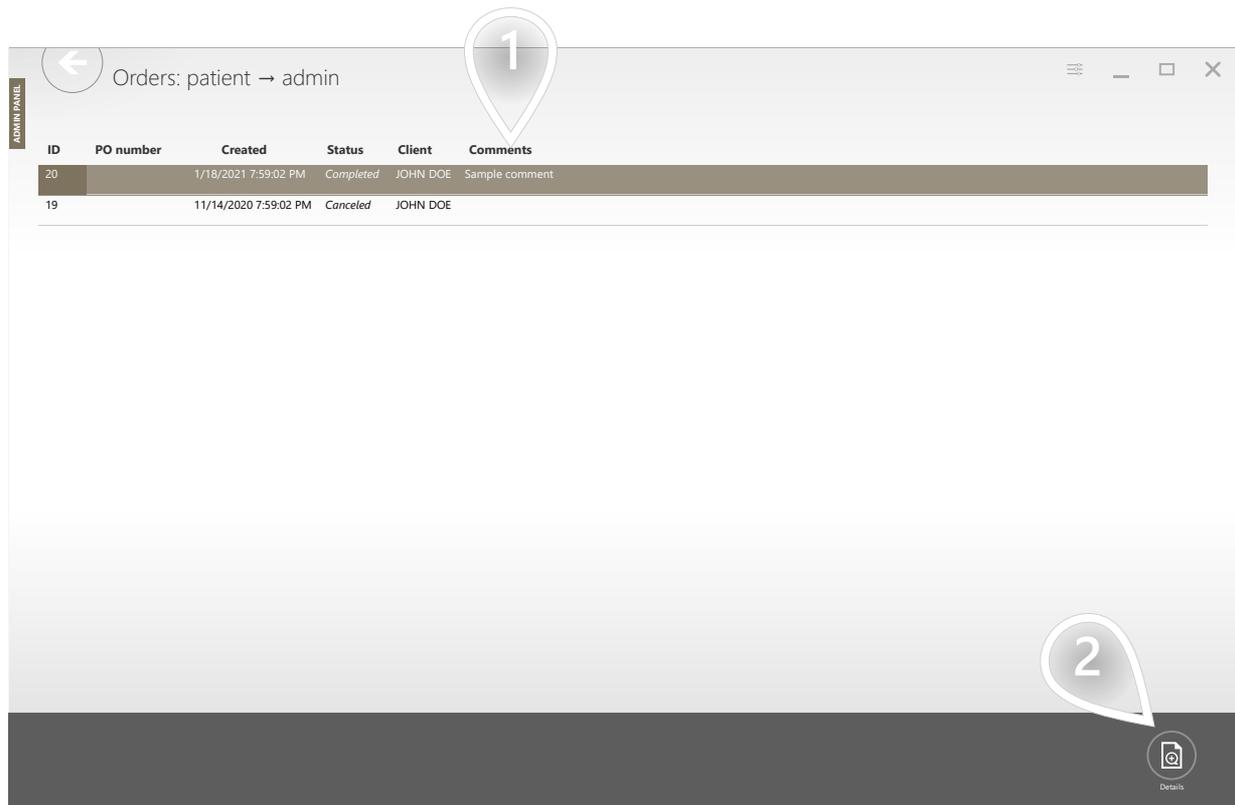


- 1 Click the 'Orders from patients' button if you want to check the orders from patients.

ORDERS FROM PATIENTS

2/3

VAST.REHAB ADMIN'S PANEL: ORDERS CONTROL



- 1 Choose the order you want to check and click on it to highlight it.
- 2 Click the 'Details' button if you want to check details of highlighted order.

ORDERS FROM PATIENTS

VAST.REHAB ADMIN'S PANEL: ORDERS CONTROL

In this view you can check the chosen order details, invoice/proforma number connected with this order and read comments from distributor about the order.

The screenshot shows a web application window titled "Order details" with a back arrow icon and window control buttons (minimize, maximize, close). On the left, there is a vertical sidebar labeled "ADMIN PANEL". The main content area displays the following information:

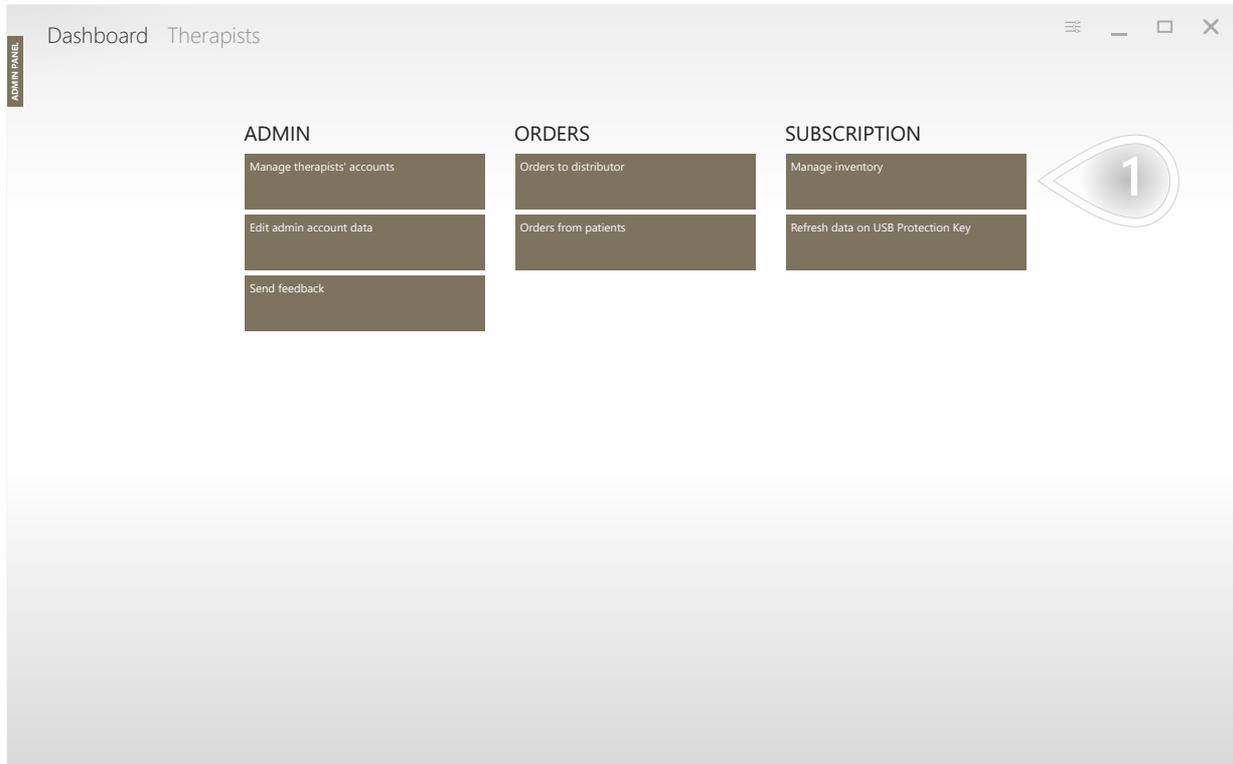
- Client:** JOHN DOE (johndoe5285)
- Vendor Id:** adaadm3254
- Status:** Completed
- Created:** 1/18/2021 7:59:02 PM
- Status changed:** 1/18/2021 7:59:02 PM

Below this information is a "Comments" section with the text "Sample comment".

At the bottom, there is a table with the following data:

ID	Product name	Type	Quantity
1	Home therapy time	online	30

When you need to manage Patient Station subscriptions, you can do it by following instructions below.



- 1 Click the 'Manage inventory' button if you want to check inventory of your institution's VAST.Rehab platform.

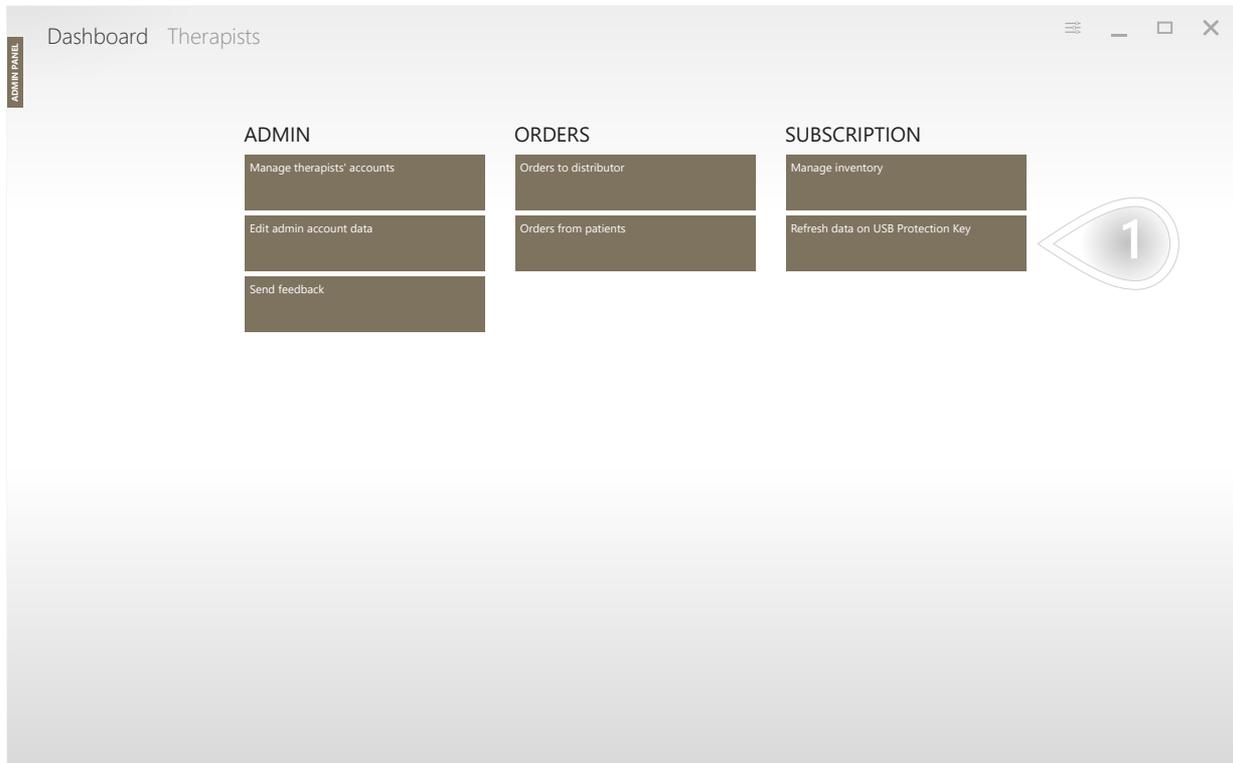


- 1 Click on Patient Panel instance you are interested in to highlight it.
- 2 You can check here what modules are available.
- 3 You can check here the expiration date of the license for the modules (if you use the web version of VAST.Rehab, the local version with Sentinel time is unlimited).
- 4 You can check here the number of home therapy days remaining to be used.

REFRESH DATA ON USB PROTECTION KEY

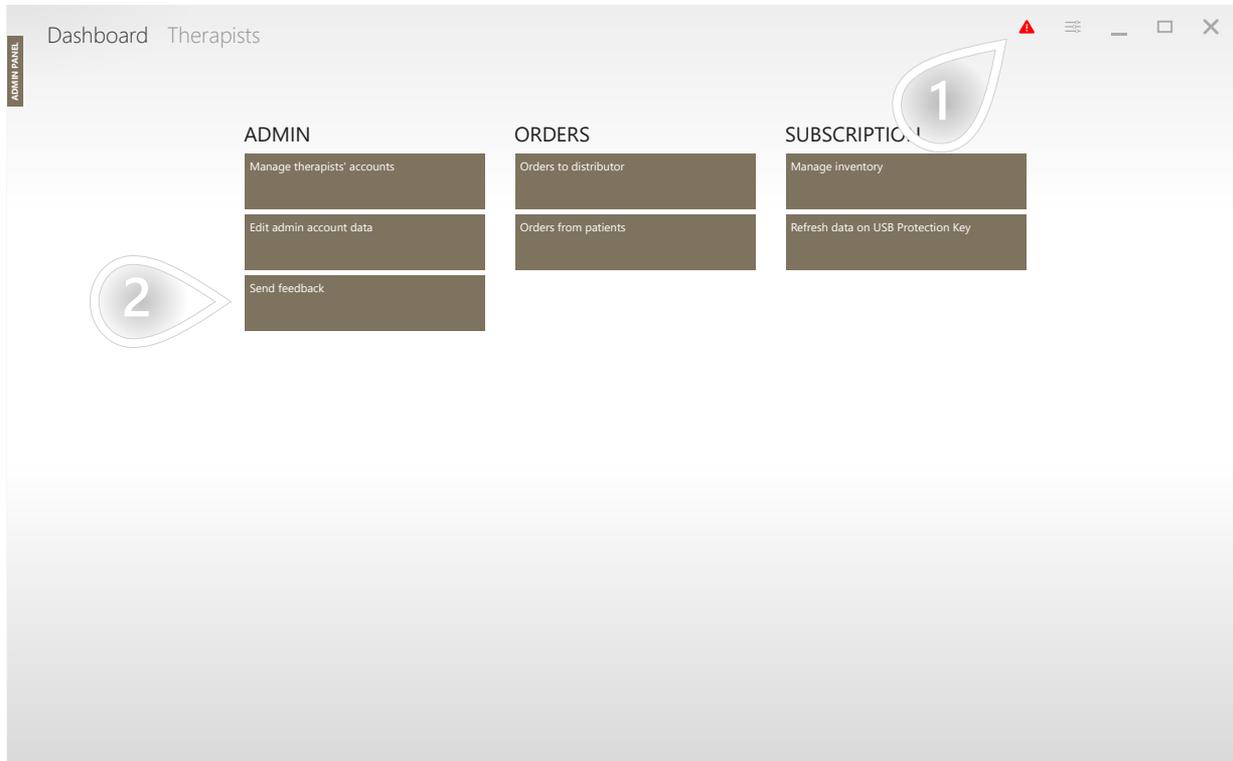
VAST.REHAB ADMIN'S PANEL

When you use local connection type sometimes you will need to refresh data saved on your USB dongle (Sentinel).



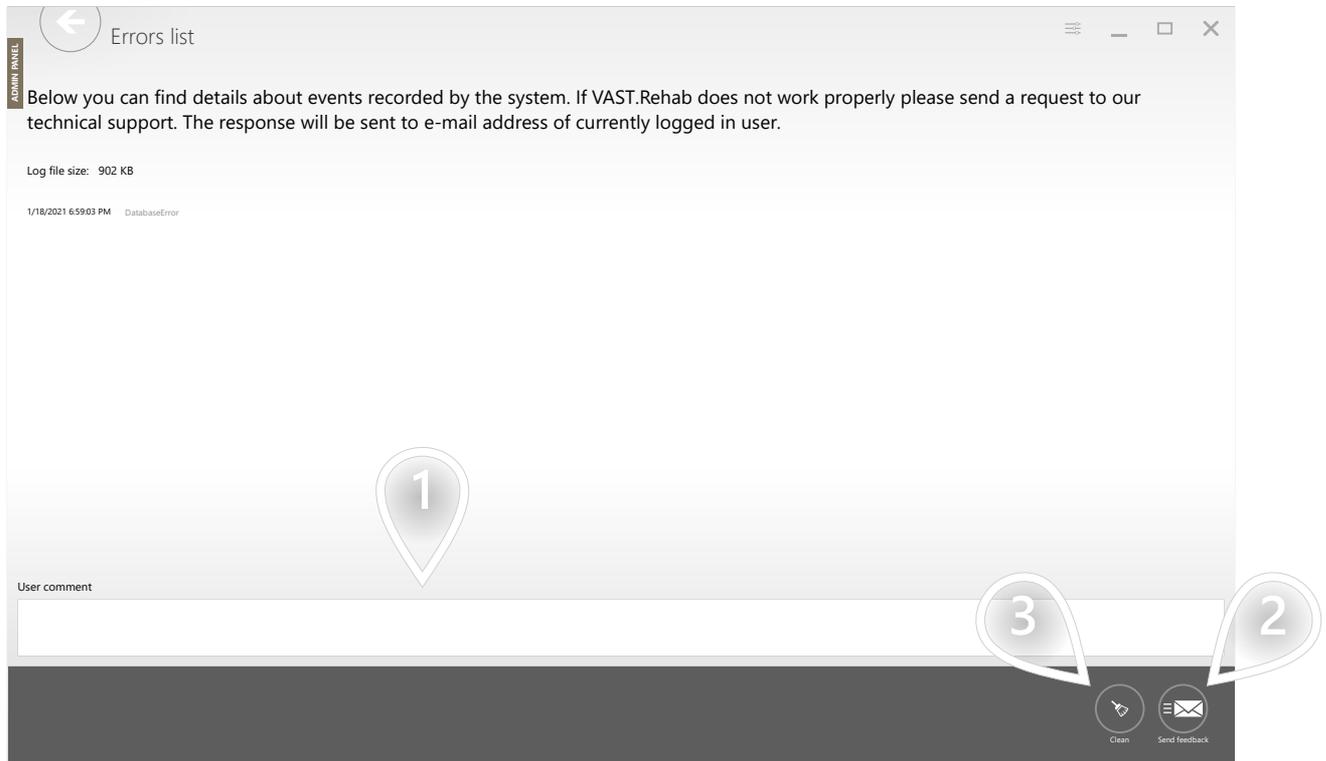
- 1 Click the 'Refresh data on USB Protection Key' button if you need to refresh data on USB (Sentinel). After click it window with information about the task will be displayed. The computer must be connected to the Internet while data is being refreshed.

Sometimes software may encounter a situation in which it can't proceed with its regular flow. Such a situation might happen when there is a problem with WI-FI or internet connection, a connection between devices or some other unexpected conditions occurred.



- 1 If the system encounters an error this red triangle appears. By clicking it you can obtain more information.
- 2 You can also use the 'Send feedback' button to navigate to the page that allows you to send a log file to the technical support.

Here is detailed information about errors that have occurred since the application was launched.



- 1 Here you can add a comment about what happened when the error occurred.
- 2 With the 'Send feedback' button you can send a log file to the technical support.
- 3 After you send logs you can remove the red triangle from above using the 'Clean' button.