

EN-Track

User manual

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1 Introduction

1.1 General

EN-Track is a software program for generating exercise protocols and monitoring their execution. It enables a physiotherapist or coach to acquire a clear insight into a client's training status. Using the chipcard on which the training protocols are written, the En-Strength exercise machines, EN-Free locations and the EN-Cycle-Track ergometer of Enraf-Nonius can all be pre-set. The program also enables the results and parameters for each exercise to be read off and the training results for each exercise to be recorded. A client can also be 'referred' from one exercise machine to another.

EN-Track is intended for use by experts in physiotherapy, rehabilitation and related fields.

The EN-Track software package is exclusively reserved for use with Enraf-Nonius equipment that can be controlled by EN-Track software.

For information on how to install the exercise machines that can be controlled by EN-Track, we refer you to the installation manuals supplied with the hardware.

1.2 Conclusion

You have certainly made the right decision by purchasing the EN-Track software program. We're convinced that you have many years of pleasurable use of the program ahead of you. Should you have any questions then you can always approach your supplier.



2 Safety

2.1 Preliminary remarks

It is important that you read this manual through carefully before you start to use EN-Track. Make sure, above all, that this manual is constantly available to all the personnel involved by printing it out.

Words in the manual that are printed in bold type refer to texts that are used in the software program.

When using EN-Track, pay particular attention to the following:

- 1. You must make sure that you are adequately informed about the various contra-indications (see chapter 3).
- 2. The client must remain within view of the physiotherapist/therapist at all times.
- 3. The program should not be used in so-called "wet rooms" (hydrotherapy rooms).

The manufacturer is not liable for the consequences of using the software program in a manner other than that described in this manual.

2.2 Product liability

A law on Product Liability has become effective in many countries. This Product Liability law implies, amongst other things, that once a period of 10 years has elapsed after a product has been brought into circulation, the manufacturer can no longer be held responsible for possible shortcomings of the product.

Limitations of liability

To the maximum extent permitted by applicable law, in no event will Enraf-Nonius or its suppliers or resellers be liable for any indirect, special, incidental or consequential damages arising from the use of or inability to use the product, including, without limitation, damages for loss of goodwill, work and productivity, computer failure or malfunction, or any and all other commercial damages or losses, even if advised of the possibility thereof, and regardless of the legal or equitable theory (contract, tort or otherwise) upon which the claim is based. In any case, Enraf-Nonius's entire liability under any provision of this agreement shall not exceed in the aggregate the sum of the fees paid for this product and fees for support of the product received by Enraf-Nonius under a separate support agreement (if any), with the exception of death or personal injury caused by the negligence of Enraf-Nonius to the extent applicable law prohibits the limitation of damages in such cases.

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3 Absolute and relative contra-indications

3.1 Criteria for exercise therapy

If a shortened muscle is working over a hypomobile and/or painful joint, then the active roll-gliding in the joint must first be restored before the shortened muscle is treated (stretched).

If a weak muscle is shortened over a hypomobile and/or painful joint, then the active roll-gliding in the joint must first be restored before the weak muscle is strengthened.

If the antagonist of a weak muscle is shortened, then the shortened antagonist must first be stretched before the weak muscle is strengthened.

If you wish to strengthen a weak, painful muscle then, at the start of training, the muscle must NOT be trained from the maximum stretched position. Eventually, however, it will be possible to train the muscle from the maximum stretched position.

It is not recommended that you commence training without any form of preliminary examination of the patient or while the patient is feeling unwell or uncomfortable (e.g. tired, cold).

Medical training therapy should not result in painful joints. Muscle pain, on the other hand, can be a normal result of intensive training. The patient must therefore be told in advance that muscle pain may arise.

In patients with problems of the spinal column, heavy pressure loads on the back must be avoided. This can be done by selecting exercises in such a way that exercises that can cause pressure load are skipped or adequately replaced.

The following factors are regarded as absolute contra-indications for exercise therapy:

- recent myocardial infarction, suspected infarction,
- pronounced resting stenocardia;
- pronounced resting insufficiency;
- serious dysrhythmia and asequence;
- pronounced aortic stenosis;
- active thrombophlebitis, recent embolism;
- malignant hypertonia;
- myocarditis, endocarditis, pericarditis;
- major aneurysm of the heart or large vessels;
- acute infectious disorders, acute illnesses.

The following factors are regarded as **relative contra-indications** for exercise therapy:

- serious exercise coronary insufficiency;
- stimulus and conduction disorders;
- metabolic derangement;
- moderately severe aortic stenosis;
- hypertonic regulatory disorders;
- hypertrophy;

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- respiratory insufficiency;
- minor aneurysm of the heart or large vessels.

4 Using the EN-Track for the first time

4.1 If you are using the EN-Track for the first time

EN-Track is a software package for generating active exercise protocols and for checking the realization of these protocols. The EN-Track software can run under Windows (95 and higher). The software can also run under a Windows network (See menu **Extra \ database**). This is possible both with a single user and with a multi-user database.

To install the software, please insert the CD-ROM in the disk drive and type "D:\SETUP". Then follow the instructions on the screen. Under Windows you can get the EN-Track software to start automatically (click your right mouse button on the taskbar, select "Properties" and specify EN-Track as the startup program). For further information, please refer to your Windows manual.

The hardware requirements for the EN-Track software are:

- a Celleron 2Ghz or better
- with Windows XP Professional (currently Windows Vista is not recommended)
- 256 Mb internal memory, 512 Mb is recommended
- CD-ROM disk drive
- (S)VGA monitor
- a printer according to your personal requirements, and supported by your Windows version.

4.2 **Request a license**

Out of the box EN-Track will be fully functional for 30 days. Within this period yu must apply for a licence key, which is bound to the PC EN-Track is running on.

When unlicenced, EN-Track will start with the following dialog:

| EN-Trackv6 |
|---|
| CF49AC91 FF0B-9F25-4F9A-F929 |
| Days left: 30 Uses left: N/A |
| Enter application |
| C Unlock application Activation code |
| Remove license New Site code: Transfer license |
| Application status: EVALUATION |
| Online Fax |
| Cancel Continue >> |
| Fig. 4.1: License dialog |
| You can request a licence directly by pressing the Online button in case you have an internet connection. An internet site will open and a form will apear where you can fill out your personal data. Once completed please post this form to our support team. |
| If no internet connection is available on the EN-Track PC, you can create a printable form by pressing the <i>FAX</i> button. Fill out your personal data and print it. Consequently fax the form as indicated on the printed sheet. |
| Finally you can also go to a PC with an internet connection and surf to our website <u>http://www.en-track.com/</u> and select the license menu option, (<u>license form</u>). Complete the form that is presented to you and submit it. |
| Note: The SITE- and MID-codes are very important, so copy them accuratly! |
| After we have received your license request, an activation code will be sent to you within a few days. Upon receival select the option <i>Unlock application</i> in the EN-Track opening dialog(see fig 4.1) and fill in the activation code . By pressing <i>Continu</i> your copy of EN-Track will be licensed. Store this code carefully. |
| Without license , EN-Track will function for 30 days. After this period it will sease working. The license will be valid for 365 days. 30 days before this license period this dialog will popup again when starting EN-Track, reminding you to renew the license. |

At any time you can view this license screen by keeping the LEFT SHIFT + LEFT CTRL keys pressed, when starting EN-Track.

8

5 EN-Track operation

After you have started up EN-Track you will see the following starting screen.



From the starting screen the various main menus can be reached by clicking on:

Client Exercise Indication Tools Options Help

Consult the table of contents to locate the information on the various menus. Before you can start using EN-Track the exercise systems in your practice must first be selected and the standard settings defined. For information on how to do this, read the **Options** chapter of this user manual. Go to the **Options** menu and fill in the requested details to customize your package to suit your practice.

Now go to **Client information** to enter details of the first client.



5.1 Client information

In this menu new clients can be entered or data for existing clients can be retrieved from the database. The Import option allows you to import client data from other databases. See appendix A

| Client | Track v6 Exercise Indication | Tools | Options | Help | |
|-------------------|------------------------------------|-------|---------|------|--------------|
| Ope Info | :n) | F2 | 2 | | 7 |
| Imp Imp Exp | ort ort ENTreeM ort | | | (| |
| Clier Trea | nt report atment information re | port | | | \mathbf{A} |
| Prin Pag | t Setup e settings | | | | |
| Exit | | | | | |
| - | | | | | 5 |

Fig. 5.2 Client information

In submenu New you can add a new client to the database.

In submenu **Open** you can select the client with whom you are going to be working or add a new client by clicking on "+". By clicking on "-" you can delete a client from the database.

The submenu **Info** displays the data for a selected patient. This data can also be retrieved by clicking on the Function Key F2, e.g. if the "Exercise indication screen" is already open.

The submenu **Import** enables you to import client data from external databases (see appendix A).

The submenu Import EN-TreeM will only appears in case you have an EN-TreeM installation on your PC!

Submenu **Export** provides a way to save all client address details in one comma-delimited TXT file or a Virtual Card Format file (VCF) per client.

With the submenu **Client attendance report** you can create a list of clients, together with the dates of their attendance and the total number of trainings (the dates cannot be changed via this menu). This is not a declaration program for tax purposes and no rights can therefore be derived from it.

With the submenu **Client info report** you can create a list of the clients' referral and training information, which is defined by the therapist in the submenu **Exercise indication** under "reporting" and "comments per training", (see § 5.2). The specific time-window for which you want to summarize the training information can also be chosen. This summary can also be printed out.

With the submenu Printing Set-up you can select your printer.

With the **Close** option you exit the EN-Track program.

5.1.1 Inputting new clients

After clicking on **Open** or **New** the following screen appears:

| Demograph | iic data | | | | | |
|---|---|--|---|---|---|---|
| Client listing | | #3 | Name and Addres | s | | |
| | .a | | | | | |
| Ox. arthur | | | | | | |
| Doe, John | | | | | | |
| Braun, Peter th | е | | First name | Middle name | Date of bir | th |
| | | | arthur | | 25-01-19 | 68 15 |
| | | | Street | | | Nr. |
| | | | | | | |
| | | | Zin code | Place | | |
| | | | | | | |
| | | | | | | |
| | | | Home phone | Office phone | We | eight |
| | | | | | | |
| | | | Gender | | Hei | aht |
| | | | O Female | Male | | <u></u> |
| | | | | | | |
| | | | Dominant side | 0.011 | | rest |
| | | _ | | Right | | |
| | | | Group | | - | |
| | | | aloop [| | | |
| _ | + | | 1 | <u></u> | | 1 |
| Delete | New | | Indication 🕼 | Là. | | X Close |
| Fig. E.2 Entoring n | ou eliente | | | | | |
| Fig. 5.5 Entening in | ew clients | | | | | |
| - | | | | | | |
| Delete | = | Delete the selec | ted client and a l | ll his/her exerc | ise and 1RI | W information |
| + | | | 4 | | | |
| Add | = | Add a new clier | It | | | |
| V | _ | Open general fi | lter nannel | | | |
| | - | Open general n | iter parifier. | | | |
| Indication 🕼 | = | Shortcut to Exe | rcise Indicatior | า | | |
| | | | | | | |
| B | | | | | | |
| | = | Quick link to Cli | ient info report | | | |
| 🗸 ок | = | Confirm the dat | a. If no data has | s been changed | this will in t | the window being |
| | | closed. Otherwi | se the changed | data will be sa | ved. You ca | n also save any |
| | | | • | | tton | |
| | | changed data b | y clicking on the | e indication bu | llon. | |
| Items in hold t | na (surn | changed data b | y clicking on the | e indication bu | llon. Ide (if speci | fied as such under |
| Items in bold ty | vpe (surn gatory f | changed data b ame, first name, ields"). | y clicking on the date of birth) a | e indication bu | lds (if speci | fied as such under |
| Items in bold ty " Options\ Obli As soon as the | vpe (surn gatory f | changed data b ame, first name, ields"). Il details have be | y clicking on the date of birth) a een filled in, clicl | indication burner obligatory fie on 'indication' | llds (if speci ds (if speci d to reach th | fied as such under ne Exercise indication |
| Items in bold ty " Options\ Obli As soon as the menu. | vpe (surn gatory f persona | changed data b ame, first name, ields"). Il details have be | y clicking on the date of birth) a een filled in, clicl | e indication bu re obligatory fie < on ' indicatior | llds (if speci n' to reach th | fied as such under ne Exercise indication |

Note:

If you want to change the date format (or have problems with it), you can change this under Windows (in <settings> in <configuration screen>, in <country settings>, in <date> in <short form date>). If the short-form date does not contain a four-figure year number then you will be warned about this when you restart. In that case you cannot, of course, be certain how the PC will fill in the year number.



| Filterpar | nel | 3 | | 31 [| > 1-6-2007 | | |
|-----------|-----|---|--|--|---|---|----------------------|
| () | = | If the group-filte | er is activated | d, the right d | lropdown box di | splays the selec | ted group |
| 31 | = | Filter exercise on a certain da appears. This a | results on da ite with result allows you o | te. This allo s present. V set a date-ra | ws you to show Vhen selected, a ange or one par | only the exercis a date selection l ticular day | es perforn button |
| ! | = | Filter exercises particular date | s with deviation or date-range | ons betweer e | n actual perform | ed and target va | lues, for a |
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5.2 Exercise indication

Indication 🗊

After activating this tab all the aspects of the exercise will be displayed in sequence in the field '**Enter new client**' (5.1.1) or after double-clicking on the client's name:

From this main menu the client's loading parameters can be processed. This menu cannot be accessed unless the <u>Client</u> menu is selected in the menu **Client information**

| Client | Exercise Indi | cation | Tools | Options | Help |
|--------|---------------|--------|-------|---------|------|
| | Open | | | | |

A selected client is shown in the status bar at the top of the screen

| Exercise Indication: Peter the B | raun | | | |
|----------------------------------|-----------------------|--------------|---|----------------|
| Client listing | | | ID Current indication | |
| Last name 7-a | >> | | BRA0004 20-5-2003 3 : Knee hurts | |
| | | | | |
| Doe John | Indication | Intake | Training Exercises Result | |
| Braun, Peter the | List with evercise in | odications | Date of creation End date | Coach |
| | 1 7.10 | 2002 | 20-05-2003 15 15 | Edwin van Oort |
| | 2 31-3- | 2002 | | |
| | 3 20-5- | 2003 | Name | # of exercises |
| | | | 3 Knee hurts | 4 |
| | | | Inform client about his score | |
| | | | | |
| | | | | |
| | | | Impairment Knee instability | |
| | | | | |
| | | | Location | |
| | | | | <u></u> |
| | | | Diagnosis | <u> </u> |
| | | <u> </u> | | |
| | | <u> </u> | | |
| | Delete | | Diagnosis Current status Beferring physician Benort | est evaluation |
| | | | | |
| | | • | | |
| | 🖘 Demografic | 🚦 Status 🛛 📝 | Cc Read card | Close |
| | · | | |] |
| Fig. 5 .4 Exercise indication | | | | |
| | | | | |
| | | | | |
| 🔜 = Hide or show Clie | nt listina. | | | |
| | | | | |
| | | | | |



Use **CTRL+TAB** to switch between the tabs The submenus will be explained in sequence.

5.2.1 Indication

Indication In this menu an indication for a client can be added or deleted. The date on which a new indication was created will appear on the list of indications.

For each client several indications can be shown under different dates. The information relating to a client who comes back for training after, say, six months need not be re-entered. Old training routines can easily be retrieved (for relapsing patients for example).



Add an indication for a new or existing client, including a name for the indication.

Delete an indication for a new or existing client, including a name for the indication.

| Date of creation | | End date | |
|------------------|----|----------|----|
| 19-05-2007 | 15 | | 15 |

Each indication has a Creation date and an End date. This determines a indication periode that not only contains treatments and results but also test results. If a new indication is created the End date of the previous indication will be set on today

15 Date selection button

Give the indication a designation by filling in the field 'name'.

Inform client about his score You can indicate by ticking the selection box that you wish the client to be shown their score at the end of the training. After the client's training data have been stored in the computer via the chipcard a screen will appear with a message stating that everything has gone OK. Exercises that were performed in an amended form, which were omitted, or which were not performed completely will be displayed on the screen. The standard value for this setting, as well as the percentage by which the exercise results must deviate before the warning is displayed, can be set in menu **Options, Standard settings.**

Under # trainings you will see the number of trainings that have been entered for the client.



Under **reporting** you can compile and maintain a personal report per indication. On the basis of the indication you can then compile a training program (perform intake, create training, run, and check results).

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5.2.2 Status



The Status box can be activated at any time in the **exercise indication** field. You can use this box to save information about the status, the referring person, a possible diagnosis or reporting information. Entered strings do not affect any report or protocol, and are intended merely as a 'memo field'.

| 👘 Data of Peter | the Braun | | | × |
|-----------------|----------------|---------------------|--------|-----------------|
| | | | | |
| | | | | <u> </u> |
| | | | | |
| | | | | |
| | | | | |
| | | | | T |
| 1 | | | | |
| Diagnosis | Current status | Referring physician | Report | Test evaluation |
| | | | | |
| | | | | |

Fig. 5.6 Client details



5.2.3 Intake

Intake

From the Exercise List (1RM definition tab) you can select the units that should be used for the 1RM test by using the arrows (-> for 1 unit, ->-> for all units). The right-hand listing shows the selected units. By clicking on the Intake card you can create a card that can be used to perform the 1RM test.

| The Exercise Indication: Performed to the Indication Performance P | ter the Braun | <u>_ ×</u> |
|--|--|----------------|
| Client listin Last name z-a Ox, arthur Doe, John | ID Current indication BRA0004 19-5-2007 3 : Knee hurts Indication Intake Training Exercises Result | |
| Braun, Peter the | 1 RM Definition Exercise list: Selected exercises: | |
| | Show all Test results Image: Show all Test results | |
| | | - |
| | T Demografic Status Status C Read card | Close |

Fig. 5.7 Selecting intake exercises

5.2.3.1 Test Definition / accepting an intake

1 RM Definition On the exercise list of this tab there appear the exercises that can be performed on the exercise equipment that you have in your practice. Select an exercise by double-clicking on the designation/name in the left-hand list. Another way of doing this is to use the following keys:



= add the selected exercise. This will copy the selected exercise from left to right.

= add all exercises. This will copy all exercises from left to right

In the right-hand list a set of exercises then appears which can be written out to the chipcard.

Show all Test results

This button appears while normally only the test that are performed during the inication periode are shown. When you want to see alle the test this client has perfomed over the years without any date limitaion press this button.

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- - = Display grouped or in a list
 - = Collapse or expand all
 - = Select all
 - = Delete all selections

Three tests can be performed on any EN-Cycle. You select a test in the same way as a 1RM test.



If the chipcard is inserted into the wrong control box (if the EN-Strength, EN-Free or EN-Cardio exercise machines have not been selected for the intake), the control box will refer you to the first exercise machine in the list.

After an intake has been accepted on all the selected exercise equipment you will be referred back to the PC. Insert the chipcard into the chipcard reader. The card will be automatically read in if you have selected this option in **Options\general\Auto read-in**.

5.2.3.2 Manual input of a 1RM value or test value



= Select a unit in the exercise list (see fig. 4.7) and manually enter a 1RM value (e.g. the result of an isokinetic test for that movement).

These fields will appear in sequence to enable you to manually enter a 1RM value.

| PULL 1-01, Arms - Trice | s kickback 🛛 🗶 |
|-------------------------|----------------|
| 1 RM[kg] | |
| | |
| ОК | Cancel |

Fig. 5.8 Manual input of a 1RM value strength exercise

| TRED HR, Conconi | x | TRED HR, Conconi | x |
|-----------------------|---|--------------------|---|
| Hartrate [BPM] 150 | | speed [Km/u] 12 | |
| OK Cancel | | OK Cancel | |

Fig. 5.9 Manual input of a 1RM value cardio exercise

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5.2.3.3 1RM value strength exercise results / Cardio test result

Client performed 8 repetitions at 60 Kg on the 1/1 Seated Leg Press. The 1RM will therefore be calculated as 60 Kg x 100% / 81.5% = 73.6 Kg (81.5% is the best-fit result between 80% and 85% from the Holten diagram, according to the best-fit logarithmic equation y = -9.88Ln(x) + 102.05.) NOTE: if the 1RM values were entered manually then the unit will show # = 0 and Kg = 0

the Intake report can contain several remarks about this specific intake.

Enter a target value

Enabled you to enter a test target value for each specific test as a goal value

Indication Test results

Only select the test results that are obtained in the indication periode.

5.2.4 Training

Training

Click on this tab

| 17 | Exerc | ise I | ndication: Pete | er the B | raun | | <u>_ </u> | IX |
|------------|-----------------|---------|-----------------|----------|------|--------|---|------|
| | Name | e | | | | ID | Current indication | |
| « | Bra | un | | | - | BRA | 19-5-2007 3 : Knee hurts | |
| Γ | India | cation | Intak | (e | Tr | aining | Exercises Result | |
| | Trainir | ng: | Data | 1-6- | 97 | Test | - | |
| | \vdash | NI 1 | 23-6-2003 | Inro | 100 | Test | Remark per training | - |
| | \vdash | 2 | 30-6-2003 | 5 | 100 | | | - II |
| | 10 | 3 | 29-10-2003 | Ý | 104 | | 1 | |
| | | 4 | | | 108 | | | |
| | | _ | | | | | Start message: | |
| | | | | | | | | |
| | | | | | | | Order of exercises | |
| | | | | | | | C Fixed | |
| | | | | | | - | 🖸 💿 Random | |
| | | | | | | | | |
| | - | - | + | Step | * e/ | 8 | 🔤 🔤 🖸 🖸 | |
| | Ren | nove | Add | 4 | • 70 | Edit | Protocol Reset Report | |
| | | | | 1 | | | | |
| | € U , De | emogr | afic 🛛 🖁 Statu | s | | Y | cc 🕯 Read card cc 🎽 Write card cc 🎽 Intake card 🗸 🗸 Clo | se |

Fig. 5.11a Putting a training together

The current status for each training is shown under **Info:** A green marker and a date indicate that the training has been completed for that date; a blue marker means that an exercise has been started but the training is not completed. Before a "next day" can begin this exercise should be completed (or skipped by pressing the Reset button).

The maximum number of trainings that can be created per referral is 63. When you create a new referral the last training from the previous referral will be automatically copied. If you do not want to use this training you can delete it and create a new training instead.



Using the increment% you can quickly add values for each training. When a training is added the resistance values will be increased for all systems according to the increment percentage.

- By first setting the increment size and then adding several trainings by clicking on the <u>Add</u> button a smoothly incremental protocol can be compiled.
- The remark per training can be used as a notepad.
- **The start message** can be used to display a message to the client when s/he is loading his/her chipcard on the PC. This can be used to, for example, provide information about an individual warm-up.

| Order of | exercises |
|----------|-----------|
| | |

C Fixed

• Bandom

When **order of exercises** is selected, the sequence of the systems selected is fixed. After one system is finished the display on the unit will show the next system specified, and not any of the remaining systems.

Adjust Protocol

This button will adjust all exercises of the remaining training sessions according to the results of the training last performed. The actual values for a new training will therefore be based on the values realized in the previous training.

NOTE 1: this will only function with increased values (thus the realized value of the last training should be higher than the actual value of the last training, otherwise it will adopt the actual value) NOTE 2: Adjust Protocol can be used with any training, whether fixed, auto-adjustable and /or unlimited client adjustment.

| 2 | à | |
|---|-------|--|
| 2 | onort | |

Heport With this button all information concerning the training can be viewed and/or printed (both numerically and graphically).

The status of the training will be displayed in the column Info, where:

- A green marker and a date indicate that the training has been completed for that date,
- A blue marker means an exercise has been started but the training is not completed. Before a "next day" can begin, this exercise should be completed (or skipped by pressing the Reset button)
- Image: The little chipcard icon indicates that the training is already loaded



• This function appears when a training in the list is not fully completed. If you want to mark the training as DONE, use this function.

100 %

Reset the trainingspercentage of all trainings that are not yet started to 100%.

| | | e | п | e | r |
|----|----|----|----|-----|---|
| | - | ~ | э | ~ | |
| 11 | 20 | 00 | 10 | 1.5 | 2 |

For other indications see this button

5.2.5 Exercises

On this tab the exercises of a selected training can be seen in detail. In the right-hand field you can see

Edit

the series of the exercise that has been selected in the left-hand field. If the training has not yet been performed this can still be adjusted by clicking this button (the same procedure as **defining exercises**).

See **details** after clicking on **change** for an explanation of the icons displayed under **Extra exercise information**.

| . 4 | . Iza & D) | | | | | | | | |
|------------|------------------------|---------------------|--------------------|-------------------------------------|----------------------------------|------------|------------|---------------|--------------|
| xe | ercise Indica | ition: Peter the Bi | aun | · | | | | | |
| va Bi | me raun | | | 004 Current ii | ndication 17 3 : Kne i | e hurts | | | |
| _ | | | | | | | | | |
| In | ndication | Intake | Training | Exercises | Result | | | | |
| | Se | ttings of the exer | cises for training | nr. <u>3</u> 🖶 29- | 10-2003 104 | 1% : | Series for | exercises nr. | 1 🖬 |
| ŀ | Nr Level | | Exer | cise name | | Series 🔺 | Nr | # Kg | last |
| 1 | Custom; A | All | 1_1 9 | Seated Leg Press | | 3 | 1 | 4 40,0 | 0,0 |
| 2 | Interval; 9 | Short Extensive | BIKE | P, Power | | 5 | 2 | 4 40,0 | 0,0 |
| 3 | Duration; | Extensive | TREE | HR, EN-Mill Heart | rate | 1 | 3 | 4 40,0 | 0,0 |
| | | | | | | | | | |
| | <mark>گ</mark> Edit | C Extra | exercise info | ^p ause: 0:15 Training | | | | F | C. Report |
| . , | Demografic | Status | 7 | cc Read ca | ard cc | Write card | | ntake card | 🗸 Close |

Fig. 5.14 Exercise information

Extra exercise info F
F
C
Pause :
0:15
Training This screen shows what has been selected under the **Extra exercise information** (see chapter <u>Exercise information</u>)

C

The measured results of the previous training for the selected exercise, if these are present, should be set to 0. If the results of the last exercise performed are higher than was desired according to the training scheme and you therefore want to definitively adjust the protocol for the rest of the training cycle, then the results of the previous training must be reset for this exercise.

If you do NOT do this while **top detection** is enabled than the last exercise parameters performed will be stored again on the chipcard. If **top detection** is not disabled then data from a previous training need not be reset.

5.2.6 Results

| ame | | ID | Current ind | cation | | | | | | | | | |
|----------------|------------------|-------------------|-------------|--------------|--------|----------|------|-----------------|-----------|-----------|---------|-------------|----|
| van Capelle | 2 | | 21-08-200 | 2 1 : | Back P | ain | | | | | | | |
| Indication | Intake | Training | Exercises | | Result | - | | | | | | | |
| Setti | ngs of the exerc | ises for training | nr. 2 📩 | 26-8-20 | 102 10 |)0 % | | ę | Serie | s for exe | ercises | nr. 2 | 1 |
| Nr | | Exercise | | Info | 1 RM | | Nr | # | # | Time | Kg | Kg | Γ |
| 1 1_1 Se | ated Leg Press | | | 1 | 73,6 | <u>-</u> | 1 | 4 | 4 | 0:03 | 47,0 | 48,0 | |
| 🕞 2 1_4 Pu | ll Down | | | \checkmark | 0,0 | | 2 | 4 | 4 | 0:03 | 47,0 | 48,5 | |
| | | | | | | | 3 | 4 | 5 | 0:09 | 47,0 | 48,5 | |
| | | | | | | | | | | | | | |
| | | | | | | • | Tat | ale | 12 | 0.15 | | | |
| Remark per tra | ining | | | | | • | Tot | als: | 13 | 0:15 | | | |
| Remark per tra | ining | | | | | • | Tota | als: egenc | 13 i | 0:15 | | Ca. Repo | rt |

Fig. 5.16 Results

Result Under this tab all the selected exercises can be viewed in detail. The right-hand table shows all the series for the unit that is selected in the left-hand table.

- *It a green marker and a date indicate that the exercise has been completed for that date.*
- A blue marker means that an exercise has been started but the exercise is not completed. Before a "next day" can begin, this exercise should be completed (or skipped by pressing the Reset button)
- If you can see a green marker, this means that the client has not yet started the exercise.
- In the right-hand field color-coding indicates the status of the series of the exercise.

5.2.6.1 Legenda

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Legend In the right-hand list are shown the requested and actual values, with the actual values shown in color codes. The meaning of the various colors is shown below.

| Legend | |
|----------|---------------------------|
| Color | codes |
| | Not done yet, or unknonw! |
| | Done more! |
| | All done corrctly! |
| | Done less! |
| | Nothing done! |
| | Target |
| | 1 RM values |
| C Def | aults |
| <u> </u> | aultsQk Legends |

5.2.6.2 Reporting



You can report graphics or numerical values

Graphical reporting per exercise

| Report | |
|----------------|------------------------------------|
| ⊙ 1_ ⊖ All | 4, Pull Down e Exercise types |
| ⊖ Tra ⊙ All | aining nr : 2 training sessions |
| | Graphics |
| | Use colors Page breaks |
| | |
| | |

The graphic shows:

- Per training (horizontal axis)
- The resistance (vertical axis) at which the client should have trained (requested value = white) and
- The resistance at which he actually trained (actual value = green).
- The 1RM value is shown as a red line.

On the right-hand side of the graphic you can select which values/parameters should be shown. You can use a scroll bar to change the size of the graphic and so display one or more training dates simultaneously.

Fig. 5.18 Reporting



The graph shows:

- Data per training day (horizontal axis)
- Data per selected exercise
- The target resistance (vertical axis) (white)
- The actual resistance (green).
- Test value results as a red line.

On the right of the graph, one can selects which items and which series must be shown. Whith the scrollbar one can determine the amount of trainingdays are shown in one frame.

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| Client: Petern Coach: Edwin vs VNUB Indication: | i h e Braun an Oort | |
|--|-------------------------------|---|
| Detailed results for | exercise: | |
| Training nr: 23 100 % | Date: 3-3-2003 | |
| 1_1 Seated Leg Pres | as Pause 3:00 | (|
| Requested Actual Nr # Kg # Time Kg 1 10 44.0 10 0.03 52.0 | | |
| 2 10 44,0 10 0:03 52,0 3 10 44,0 0 0:00 0,0 4 10 44,0 0 0:00 0,0 20 0:06 0:06 0:00 0,0 | | |
| Training nr: 24 100 % | Date: 3-3-2003 | |
| + 1_1 Seated Leg Pres | as Pause 3:00 | |
| Requested Actual | | |
| 1 10 44.0 10 | | |
| | | |
| | | |

Windows applications. See Appendix B for examples of printouts.

See <u>Appendix B</u> for an explanation about printing.

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5.2.7 Creating a chipcard

| Name T | jeerd van Cap | pelle | |
|---------------|---------------------------------|----------|------|
| Traini | ng card, nr: 1 1 | 2 | |
| Exercise | Indication date 21-8-2002 | Training | Date |
| Back p | ain | | |
| | u to PC | - | 1 |

Fig. 5.15 Creating a chipcard

When writing to a chipcard information is provided about:

- client's name
- current indication
- current training

Every day to PC?

With a multiple day card, <u>only the last training</u> values are saved on the chipcard. If all the data is to be saved, enable "every day to PC"! After each training the training unit will indicate that data has to be saved first before you can progress to the next day.

Template card

"Template card" creates a chipcard that will not save any data at all (i.e. a 'generic' training card). This can be useful if, for example, you are working with generic protocols (such as Sequence Training). You could, for instance, place your frequently used training schemes on one card. You then give this card a number or color code and then make it available to the client. The client can see from the number at what absolute level the exercise must be performed. This client does not then have to be explicitly entered into the system.

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5.3 Add and adjust exercises

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By pressing on **"Edit**" or **"plus**" button from the **"Exercise indication**" window, tab **"Training**" the exercise window appears (see blow fig 5.11b):

| | <u></u> |
|---|---|
| Name Tjeerd van Capelle | ID |
| Power exercises Cardio exercises EN-Free 6 Phase Classic Model Custom Model Force multiplication selection Absolute 1 RM 2 1 RM Reps Pause Series 60 4 00:15 3 4 Exercise list: A B D E All Image: Series Image: Series Image: Series 3 Image: Series A B D E E All Image: Series Image: Series Image: Series Image: Series Image: Series A B D E E All Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series Image: Series <t< td=""><td>Exercise list for this training 12 1.1 Seated Leg Press, Custom; All 72,0 2.1 Leg Extension, Custom; All 78,0 PULL 1-03, Arms - Reversed triceps ext., Custom; A BIKE HR, Heartrate, Custom; All 113 BOA 01, Exercise 1, Custom; All</td></t<> | Exercise list for this training 12 1.1 Seated Leg Press, Custom; All 72,0 2.1 Leg Extension, Custom; All 78,0 PULL 1-03, Arms - Reversed triceps ext., Custom; A BIKE HR, Heartrate, Custom; All 113 BOA 01, Exercise 1, Custom; All |
| | |
| | |
| a. 5.11b Putting together the first training the right-hand field the protocol can be built up by a th 'Intake'. You can choose from Strength, Freestyle ne strength trainings are compiled according to the for <u>6 Phase</u> Classic Model Custom Model | dding trainings. This proceeds in the same way a e or Cardio exercises. ollowing models: |
| ne Cardio trainings are compiled as follows: Cardio endurance Interval Custom | |
| rst the strength factor is specified. This is the percen EN-Cardio test value). | ntage of the client's maximum strength (1RM value) |
| | |

= Select test exercise(s). With this button you can select the last exercise for which a test has been administered (intake exercises).

The right part of the window shows the choosen exercises for this training. Below the following buttons can be selected:



"Edit" shows the extra exercise edit screen.

The second button changes the target value relatively to the latest Test value. (When a exercise is created based on a clients test-value for that exercise, the percentage is stored. Now this percentage can be used to create a new exercise-reference value based on latest test value)

The '-' en '- /-' buttons remove resp. the selected or ALL exercises from the list.

Note: when by mistake unwanted changes are made, just press the "**cancel**" button and noting is stored! The same happens when you just close this window with the upper-rigth cross-button!



5.3.1 Exercise information

阖

Edit

After pressing the Edit button in the previous **Exercises** window, the following screen appears (fig. 5.12a). This window enables you to view and edit exercise related properties.



Fig. 5.12a exercise information: Series

- In the upper left part, the training number, the exercise name and the original protocols are visible.
- The upper right part shows the exercise propperties and the pause time in between the series.
- The middle part shows the construction of the reference force (for further detail see paragraph 5.3.2)
- The lower part show all the series and the actual target values.

The following training properties can be set:

- Protocol progression: Fixed or Auto adjustable
- Client adjustments; Limited or Unlimited
- Exercise type: Warming up, Training of Cooling-down

The following chapters will explain these properties in depth.

The pictograms shown in these chapters can be found in the **Exercise Indication** screen, tab **Exercises**, section **Extra exercise info**.

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5.3.1.1 Progress protocol: fixed

In case the protocol is fixed than the exercise results do not influence the settings of the remaining series on the chipcard. In a **fixed protocol** the load (the resistance setting) is fixed. During the execution of the protocol the client can still change the setting, but this will <u>not</u> affect the setting for a subsequent session of the entire protocol (so the settings are 'fixed').





A. The fixed protocol that is constant over several sessions



B. The fixed protocol with progressive resistance.

The effort (resistance setting) is therefore predefined and progressive over time (e.g. an increase of 5% for each session). The percentage increment is a derivative of the last defined training.



Note: progression does not have to be linear: it can vary per training session and it can even vary positively and negatively (i.e. increase and decrease).



If a client changes his actual resistance during the training session (so that the actual value deviates from the requested value), this will not affect the settings for the next session (i.e. the **fixed protocol** continues with the requested values).

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5.3.1.2 Progress protocol: auto-adjustable:

-Protocol progression

C Fixed

• Auto adjustable

If a client increases the resistance on the exercise unit above the set value of the protocol, the next series of exercises will automatically use that value instead of the predefined (lower) value. In an **auto-adjustable** protocol the resistance setting will be in accordance with the predefined protocol unless the client changes his settings during a training session. In that case the next session will use this changed value in that series as a setting for the next session (i.e. it auto-adjusts the settings).

Note:

30



The use of top detection is enabled. This means that when an exercise machine is being pre-set it will always select the higher value when making a choice between the executed load of the last training and the desired load for the training that is now to be performed.

The higher of these two values will always be used. A client can therefore never train regressively. The coach then needs to redefine the trainings (with lowered values).

Note 1: this auto-adjustment will result in new requested values. These new values will be maintained until the old original requested values are equaled or exceeded.

Note 2: this auto-adjustment will only be performed if the actual value <u>exceeds</u> the requested value, so if a client decreases his resistance settings this will not lead to an automatic protocol adjustment. This is to prevent someone from automatically training less and less over time. Note 3: auto-adjustment is noted at series level. This means that if an increase is made only in the second

Note 3: auto-adjustment is noted at series level. This means that if an increase is made only in the second series then the next session will also only be adjusted in the second series.

Example: on the 1 -1 Seated Leg Press, auto-adjustable protocol, no progression

Note in particular the last series, where the pre-set top detection has retained the value of the protocol.

| | Protocol for day 1 | Actually realized | Auto-adjustable |
|----------|--------------------------|--------------------------|--------------------|
| | | on day 1 | protocol for day 2 |
| series 1 | 10 reps. at 50 kg | 10 reps. at 50 kg | 10 reps. at 50 kg |
| series 2 | 10 reps. at 50 kg | 10 reps. at 60 kg | 10 reps. at 60 kg |
| series 3 | 10 reps. at <i>50</i> kg | 10 reps. at <i>40</i> kg | 10 reps. at 50 kg |

5.3.1.3 Executing the protocol

Client adjustments Limited

- When performing a protocol there are 2 options: 1. Limited adjustment by the client
- Onlimited

- 2. Unlimited adjustment by the client

5.3.1.4 Client-adjustable: Limited



The client himself can downwardly adjust strength.

The client can only decrease his resistance settings during a training. He cannot increase the value above the pre-set value (this is to prevent overexertion). With limited adjustment the EN-Dynamic unit will not allow him to exceed the pre-set values. He can only reduce his resistance setting. This means that he can never do more than what is prescribed by the protocol (in terms of strength). There is therefore no danger of overexertion.

= requested value



Note: the combination auto-adjustable + limited adjustment is not possible. Auto-adjustment will only be performed if the resistance setting is increased. However, limited adjustment will not allow the resistance settings to be increased.

5.3.1.5 Client-adjustable: Unlimited

FÎ

The client is allowed to increase and/or decrease the resistance value above or below the pre-set value. In unlimited adjustment mode the client can adjust his resistance settings in all directions. Thus the client can both increase and decrease his resistance settings.



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5.3.1.6 Exercise type: Warming-up

Exer

CF

0.0

| cise type | |
|---------------|--|
| Varming up | A warm-up exercise will be initiated first, i.e. <u>before</u> any other exercise type A warm-up exercise can be done on any system, for example at a 1/1 Seated Leg |
| | Press |
| ower training | Note: if you want more than just a local warm-up, i.e. a cardio-respiratory warm- up as well, then at least 1/6 of the total body muscle mass should be incorporated. |
| Cooling down | Most lower- extremity units can therefore be used for a total body warm-up, while most upper- extremity units do not provide enough muscle mass involvement. |

5.3.1.7 Exercise type: Power training

| Exercise type | |
|----------------|--|
| C Warming up | A power training is the training that actually relates to your training objective. It will be inserted between a warm-up and a cooling-down. |
| Power training | All exercises default to Power training. |
| C Cooling down | |
| C Cooling down | |

5.3.1.8 Exercise type: Cooling-down



A cooling-down exercise will begin last, i.e. after any other exercise type.

5.3.2 Construction of the reference value



In all series, the traing values are determined by a percentage of the reference values. These values are contructed as follows:

- First a possible testvalue for the exercise is shown. (if no test is performed, nothing is shown). This value is only shown in order to give an indication of the relation between reference value and testvalue. The percentage that is shown below this testvalue will always be 100%.
- Right of the "Test" value the "Protocol value" is shown. Initially this is the value derived from the list of template exercises / protocols in the previous screen. The percentage shown is the relative value of the "Protocol value" with respect to the "Test" value.
- Next a (possible) progression factor is shown. The actual percentage can be adjusted in the Exercise indication screen in the tab Training (since this value effects ALL exercises) but in this screen you can determine if this exercise uses this progression percentage or not.
- Finally, the previously three factors define the refence value, which is shown on the right side. This value can be adjusted by clicking on the scroll buttons or by entering a value via the numeric keys. However, do realise that a possible relationship with the initial protocol will be lost in case you change the reference value in this field!

Note:

If the Progression is switched off, the protocol value will always be equal to the reference value.

progression off:



The progression percentage that is set in **step** % under **training** is not applicable to the selected exercise

progression on:



The progression percentage that is set in **step** % under **training** is applicable for the selected exercise.





5.4 Tools

5.4.1 Client mode

The Tools menu contains Client mode

| Client | Exercise Indication | Tools Options Help | | |
|--------|---------------------|--|----------|-----------------|
| | | Client mode | • | Start |
| | | Database | • | Change password |
| | | Read chipcard Identify the information on the card Chipcard Info | F5 F6 | |

If this mode is selected you enter a screen where clients can load their chipcard themselves by entering their date of birth.

This mode can be used if the coach cannot remain continuously with the PC.



Fig. 5.19 Client mode

If the correct date is entered the patient's current session will be displayed.

NOTE: you can exit **Client mode** by clicking on **CTRL** and **F10** simultaneously. The **password** (if it is entered) will prevent clients from accessing database information and the settings of the EN-Track program. This mode can only be operated from the Keypad!



5.4.2 Database

The database can be managed from this menu.



5.4.2.1 Make backup

This allows you to create a complete backup of all your EN-Track data. The data will be stored in 1 compressed container file. The data can then be restored if the database is corrupted (e.g. a computer malfunction or power outage).

The file name is as follows:

EN_TRACK_2000630.enc = EN_TRACK Year Month Day It is possible to rename the file.

5.4.2.2 Restore backup

To restore the backup file mentioned above.

5.4.2.3 Repair database

This allows you to repair a corrupted database if necessary. A database can become corrupted by a computer malfunction or if you shut off the power of your PC without first closing EN-Track.

Attention!: All three functions mentioned above are only possible when there is only 1 PC (1 EN-Track instance) using the database. In a network configuration all the other EN-Track programs must therefore be closed!

5.4.2.4 Select another database directory

With this function the location of the EN-Track database can be chosen. The default location is "<INSTALL DIRECTORY>\DATABASE". On one PC you can create multiple EN-Track database directories to allow more than one physiotherapist to use a different database (when they have different patients).

Mainly, however, this will be used in a network configuration when each PC (i.e. EN-Track program) in the network wishes to utilize the same (shared) EN-Track database. In these cases a shared resource must be created on one of the PCs. Next, all the PCs must select this shared database resource by typing the same resource name in each EN-Track program.

The resource must be identified by the following universal naming convention:

UNC of the resource: "\\<PC_NAME>\<RESOURCE_NAME>"

Example:

Take a PC name **"PRACTICE"** and the shared name of the database directory "C:\Program Files\Enraf-Nonius\EnTrack\Database" is **"DB_ENTRACK"** Then the UNC name would be: **"\\PRACTICE\DB_ENTRACK"** This name must now be entered in all EN Track programs that wish to use this do

This name must now be entered in all EN-Track programs that wish to use this database. This must also be done on the PC on which the shared resource is created !!



The network functionality works with the following configuration:

the EN-Track program runs on a Windows 2000 or XP System. The database is on a "true server" i.e. a machine on which Windows NT 4.0 server or Linux is installed.

For further information on network resources and terminology, please refer to the Windows Help information on network use!

Comment on network use

If several PCs can use an EN-Track database simultaneously then it may happen that client data that has been created on PC 1 (perhaps using an exercise program) is not yet visible on PC 2. By clicking function key **F9** the database is locally refreshed so that all the latest data is visible. This refreshing takes place automatically when the chipcard is read in or when the "Client screen" is opened from the main menu.

5.4.2.5 Database information

Displays the location of the current database and private (local) directory.



5.4.3 Identifying the information on the card F6

| 🕼 EN- | Track v6 | | | | | |
|--------|---------------------|---------------|--------------|-----------------------|----|--|
| Client | Exercise Indication | Tools | Options | Help | | |
| | | Clie | Client mode | | | |
| | | Database 🕨 | | | | |
| | | Rea | d chipcard | ł | F5 | |
| | | Ider | ntify the in | formation on the card | F6 | |
| | | Select Reader | | | | |
| | | Clea | an card | | | |

The Identify information on the chipcard function (which can also be activated by F6) makes it possible to view just the information on the chipcard, without writing the data to the database. This can be useful if, for example, several chipcards have become mixed up and you want to select the correct (already loaded) chipcard for the selected client.

5.4.4 Select a Cardreader

| 10 EN- | Track v6 | | | | | |
|--------|---------------------|------------|-----------------------------|----------------------------|----------|--|
| Client | Exercise Indication | Tools | Options | Help | | |
| | | Clie | Client mode | | | |
| | | Dat | Database 🕨 | | | |
| | | Rea Ide | ad chipcard ntify the in | l formation on the card | F5 F6 | |
| | | Sele | Select Reader | | | |
| | | Clea | an card | | | |

When the system detects one chipcard reader, a dialog with information about this reader appears. When multiple chipcardreaders are detected a list of those readers appears with the one cuurently in use higlighted. Here you can select another reader to use. The system can only work with 1 reader at the time.

5.4.5 Erase the chipcard

| W) EI | N-Track v6 | | | | | |
|-------|-----------------------|--------------------|--|------|--|---|
| Clien | t Exercise Indication | Tools | Options | Help | | |
| | | Clie | Client mode | | | |
| | | Dat | Database | | | |
| | | Rea Ide Sele | Read chipcard F5 Identify the information on the card F6 Select Reader | | | |
| | | Clea | an card | | | |
| | | | | | | - |

This options removes all training data from a chipcard, even when this card contains "corrupted data"

Note: If a card contains corrupted data it can always be used when you create a new training card. The chipcard is in 99% of these cases mechanically and electrical still functional, only the data when writing to the chipcard got corrupted, e.g. by removing the card to soon from the device.

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5.5 Options

Client Exercise Indication Tools Options Help

With this menu you can customize the package for your practice

5.5.1 Language

You can select the **Language**, after which all menus, including this help file, will appear in the chosen language.

Double-click to change the language. The program must be restarted after changing the language.



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5.5.3 Coach / Doctor / Exercise indications



To set defaults for Coach / Physician / Injury that can be selected under Exercise Indication



| 1 EN- | Track v6 | | | | | |
|--------|---------------------|-------|---------|------------------|---|---|
| Client | Exercise Indication | Tools | Options | Help | | |
| | | | Langu | age | • | 1 |
| | | | Gener | al | • | |
| | | | Coach | I | | |
| | | | Physic | ian | | |
| | | | Injury | | | |
| | | | Group | s | | |
| | | | Defau | lt settings | | |
| | | | Set De | efault exercises | | |
| | | | Install | ed systems | | |
| | | | Start (| Configurator | | |
| | | | _ | | - | |

With this option you can assign real names to the group numbers. By default the group numbers are visible.



5.5.5 Default settings

| -Track v6 Exercise Indication | Tools | Options He | lo. | | | | | |
|------------------------------------|-------------|---------------------------------------|---|--|--------------|----------------------------|---------------|---|
| Excrede indeador | 1 10013 | Language | ₽ ► | | | | | |
| | | General | + | | | | | |
| | | Coach | | | | | | |
| | | Physician | | | | | | |
| | | Groups | | | | | | |
| | | Default se | ttings | | | | | |
| | | Set Defaul | lt exercises | | | | | |
| | | Installed s | ystems | | | | | |
| | | Start Conf | figurator | | | | | |
| | | | | | | | | |
| gs | | | | | | × | | |
| ult settings Ca | rdio Settir | igs <u> C</u> omp | banyidata 🏻 Pa | ige Setup | Security | i, | | |
| Score settings- | | | | | | | | |
| Use Score cl | necking a | s default | * | Score marge | • | | | |
| | | | | -% 1 🔏 | % | | | |
| Development | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| De volgende oer | eningen z | in niet volgens | . programma ukgevo | era | | | | |
| De volgende kee | r beter lui | steren! | | | | | | |
| Uitstekend gewe | rkt vanda | ag! | | | | | | |
| Protocol progres | sion | | ⊂Client adjustme | ente | | | | |
| C. Fixed | | | C Limited | | | | | |
| Auto adjustals | la. | | C Unimited | | | | | |
| Auto adjustab | e | | | | | | | |
| ✓ Everyday to F | 'C | | | | | | | |
| | | | | | | | | |
| | | | | | 1 | | | |
| | | L | ✓ <u>0</u> k | 🛛 🗙 <u>C</u> ancel | | | | |
| la Default settings | | | | | | | | |
| default setting | s there : | are several (| ontions: | | | | | |
| Score setting | s: if this | is selected | a message will a | ppear when a | client dowr | nloads his | chipcard | |
| and the results | s of a tra | ining are ou | Itside the set bar | ndwidth (i.e. e | ither time o | r strength | are plus or | |
| Protocol Prog | gressio | n: defaults e | either to the <fix< td=""><td>ed> or <auto-< td=""><td>adjustable></td><td> option </td><td></td><td></td></auto-<></td></fix<> | ed> or <auto-< td=""><td>adjustable></td><td> option </td><td></td><td></td></auto-<> | adjustable> | option | | |
| Client adjust | nent: de | efaults to eit | her to the <limit< td=""><td>ed> or the <u< td=""><td>nlimited> o</td><td>ption</td><td></td><td></td></u<></td></limit<> | ed> or the <u< td=""><td>nlimited> o</td><td>ption</td><td></td><td></td></u<> | nlimited> o | ption | | |
| ⊏very αay τo started | -u: defa | iulis to the C | phon to downloa | au all data eve | ry day beto | re ine ne | xi day can be | = |



| ſ | Default settings Cardio Settings Company data Page Setup Security | |
|----------------|--|----------|
| | Maximum hartrate calculation = 🔀 220 - age | |
| | Target heartrate calculation | |
| | THR = factor * (HRmax - HRrest) + HRrest | |
| | C THR = factor * HRmax | |
| | Power 60 12 W | |
| | C kCal | |
| | | |
| | HRmax 0 1/2 | |
| | | |
| - | | |
| Fig | a 5.21b Cardio settings | |
| | J. J. Z ID Odrulo Settings | |
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| In ar | the tab Cardio settings you can define the basic values for the maximum heart rate (hea id the formula for calculating the target heart rate. | art rate |
| In ar He | the tab Cardio settings you can define the basic values for the maximum heart rate (heand the formula for calculating the target heart rate. For also you can define the basic values for power and torque. | art rate |
| In ar He | the tab Cardio settings you can define the basic values for the maximum heart rate (heand the formula for calculating the target heart rate. There also you can define the basic values for power and torque. | art rate |
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| | the tab Cardio settings you can define the basic values for the maximum heart rate (heard the formula for calculating the target heart rate. ere also you can define the basic values for power and torque. ettings Default settings Company name Enraf-Nonius Address Waddenweg 1 2134 XL Hoofddorp adres 1 Backup settings Backup interval 1 Number of backupfiles 7 Backup path D: \test Automatic backup I Backup time 17:30 = | art rate |

Under Set default exercises you can adjust/create default protocols.

In default settings under company data the name and address of the facility can be entered, so that this data will automatically be used in the **reports** (in the upper right-hand corner).

In the bottom halve you can determine all the backup settings:

- **Back-up interval**: Indicates how many days between to backups, 1 = every day, 2 = every other day etc. 0 = no backups are made
- Number of backups: Determines how many different backup files are kept before overwriting the oldest one.
 S a when you fill in 7 you will find 7 different backup files tegether with a g a backup interval of 1

E.g. when you fill in 7, you will find 7 different backup files together with e.g. a backup interval of 1, you can go back 7 days in time.

- Back-up path: location of the back-up files.
- Automatisc back-up: By default EN-Track wil check the backup parameters when closing. If you select automatic backup active, it will check the backup parameters (in other words, is this a 'backup-day') on the time of day selected with the "backup-time"
- Backup time: time of day on which EN-track perfoms an automatic backup (if enabled)

Before an (automatic) backup is made, a dialog apears with the question if you want to precede. After 5 seconds it will continu by default unless a user presses Cancel.

Of course it is always possible to create a backup by hand. With the "tools -> datbase -> backup" option. The path selected there is separate from the backup-path desribed above.

| Settings | × |
|---|---|
| Default settings Cardio Settings Company | data Page Setup Security |
| Page settings Top margin 13 1 [mm] Bottom margin 13 1 [mm] Left margin 13 1 [mm] Right margin 8 1 [mm] Default values | Test rapport Number of graphs per page 6 14 Number of columns 114 |
| | k |

Figuur 5.21d: Pagina Setup

Under the "Page Setup" tab one can adjust the margins and page laout for the printed reports. For a graphical report you can define the maximal number of graphics per page. For the standard report you can define the number of columns.

ENRAF NONIUS

| Set new password | Disabled function | nn's or deletion deletion training deletion | | |
|--|--|--|--|---|
| | | selections | | |
| | Global EN-T Disable sh # Users = 1 | rack Shutdown | | |
| | <u>k</u> | X <u>C</u> ancel |] | |
| With the section Security several furperforme these functions one must end of the performe these functions one must end of the performe these functions one must end of the performent of the function. The functions that can password professional functions that can password profession of customers. Deletion of customers. Deletion of indications. Deletion of performed trainings. Also, from this screen, you can shutch have a multi PC environment with th EN-Track session active, e.g. to start on this PC, before pressing the global sector. | nctions can be placed enter the password in have to set one first. ons, one must enter thi otectied are: EN-track session using down every running E le function Global EN- t up the Configurator, al shutdown button | under password this screen. s previously ent the same datat the same datat N-Track instance Track shutdown you have to sele | d protection. To ered password base, must be c e in the network). In case you w ect the option D | be able first. losed fir (when rish to ka isable s |

5.5.6 Set default exercises

| 🗊 EN- | Track v6 | | | |
|--------|---------------------|-------|---------|------------------|
| Client | Exercise Indication | Tools | Options | Help |
| | | | Langu | age 🕨 🕨 |
| | | | Gener | al 🕨 |
| | | | Coach | L |
| | | | Physic | ian |
| | | | Injury | |
| | | | Group | s |
| | | | Defau | lt settings |
| | | | Set De | efault exercises |
| | | | Install | ed systems |
| | | | Start (| Configurator |

Under options, set default exercises. You can now set the exercises.

In the left-hand table there are 3 possible models:

- the 6-phase model
- the custom model
- the classic model

In the left-hand table you can select the suggested exercise and move it to the right-hand table (6 possibilities, a to f) using the arrows (-> for only the selected exercise, ->-> for all exercises). The same goes for EN-Cardio, where the protocols are built up as follows.

- Cardio improving condition, fat burning
- Duration extensive, intensive
- Interval short intensive, short extensive, long intensive, long extensive
- Free a f



Fig. 5.22 Standard exercises

To create default templates:

- Choose whether you want the template to be based
 - 1. on absolute force values => select Absolute
 - 2. on relative values, referring to the 1RM => select 1RM
- Select the force or 1RM multiplication %
- Select the number of reps
- Select the duration of the pause
- Select the number of series
- Then copy the units you want to incorporate into your template from the left-hand Exercise list under "All" to the right-hand side under TAB A, B, C, D or E Further details can then be added / changed by means of the "Edit" function (also see Details). After this you can repeat this process, but NOTE: if you copy from "ALL" to a TAB Page it will use the default values of ALL, whereas if you copy from TAB A to TAB B it will multiply by the values stored under TAB A

| Modelname | Under model name you can name the template that you have compiled. In |
|-----------|---|
| | |

Fig. 5.22 the protocol called 'hip' has been compiled. For each main exercise list (Strength, Cardio and Freestyle exercises) different model names can be chosen per list. (A to F) The model names will always retain the standard designation A to F during the definition on the right-hand side.

NOTE: If you copy "**AII**" from the left-hand to the right-hand tab the default values will be taken as reference. If you copy from the left-hand TAB A to right-hand TAB B then the reference values will be taken from TAB A (this could result in, for example, 50% of 50% of the reference strength).

When defining a training you can select a predefined template (either with absolute or relative values) from the Custom Model to quickly create your own protocol.

Note: the Classic Model and the 6-Phase model can also be edited here so that they use other values as default.

Within each phase there is an area in which the strength and the number of repetitions can be set. Both in this screen and in the standard "**Exercises**" screen the exact values of each model will be stored.

The percentages of all the tabs and sub tabs will be stored after activation and will be displayed as defaults in "**Compile first training**" (page 19).



| ENRAF | 1 |
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| NONIU | S |
| \sim | |

5.5.7 Installed systems



| Installed systems: | × |
|--------------------|---------------------|
| | |
| cc Definition CC | √ <u>0</u> k |

Fig. 5.23 Installed systems

Under **installed systems** you can select the En Free location that you want to install in the facility. A click on the EN Free location icon, followed by **Definition CC** selects the system for your facility. (Also see § 6.7)



5.5.8 Start Configurator



Start Configurator is further explained in Chapter 6.

5.6 Help

| Client | Exercise Indication | Tools | Options | Help | |
|--------|---------------------|-------|---------|----------------|-------------------------------|
| | | | | Ge Ma Ab | neral nual out EN-Track |
| | | | | We | ebsite |
| | | | | Tra | ansport |

- General Igemeen geeft de helpfunctie weer (on-line altijd via F1 te adviseren).
- **Manual** toont de complete manual in een PDF-document.
- About EN-Track geeft informatie over uw kopie van EN-Track software.
- Website shows the EN-Track website online.
- Transport generates a back-office report file which can be send to Enraf-Nonius in case of a support request. It contains the certain database files en the log file

NOTE: This is NO backup but only intended for analitic purposes.

| bout | | | |
|-------------|-------------------|---------------|-------------|
| | Title : | EN-Track | < ∨6 |
| | Version : | 6.27.3 | |
| | Enraf No | nius b.v. | |
| Copyright : | © Copyright Enra | f Nonius b.v. | |
| Article : | 1411805 | | |
| | , −Langu a | age module | |
| | GB | 16-10-2007 | 6.27.1 |
| | www.en | -track.com | |
| | | | |



6 Start configurator

Via the main menu, Options, Start Configurator, you enter the EN-Track Configurator.

In the configurator a number of freestyle exercises are predefined which, if desired, can be amended and expanded. In the **Templates** tab all the fixed EN-Strength, EN Cardio and predefined freestyle EN-Free exercises are displayed. The configurator also enables you to generate other kinds of freestyle exercises that have not yet been defined. How exactly does this work?

| 🙀 EN-Track Configurator | | | | | | _ = × |
|--|---|---------|---------|-------------|-----------|--------------|
| Defined exercises Templates | Indication Description ↓ ↓ | | | — í | | |
| Defined exercises ⊕ ⊕ ∰ 1_1 | List of exercises Indication Description | Minimum | Maximum | Test values | Dimension | Quantity |
| E ··· 22 1_4 E ··· 32 2_1 E ··· 32 2_1 | Seated Leg Press | 1,0 | 200,0 | 150,0 | Kg | F |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Seated Leg Press on time | 1,0 | 200,0 | 150,0 | Kg | F |
| CROS Crosswalker | I Seated Leg Press left leg | 1,0 | 200,0 | 75,0 | Kg | F |
| E ● PULL EN-Tree P ● TRED EN-Mill | r Seated Leg Press right leg | 1,0 | 200,0 | 75,0 | Kg | F |
| | | | | | | |
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| | | | | | | |
| St Info | ew 🖨 Print | | | | | Save All |

Fig. 6.1 Tab: Exercises used

The "lock" symbol indicates that the exercise appears at least once in the client's exercise scheme and therefore <u>CANNOT</u> any longer be removed.

6.1 Adding a new EN-Free location

If you click on **'Add a new EN-Free location'** a new EN-Free location will appear. This location can be named in the right-hand field under **Designation** using a maximum of 4 characters (e.g. **4_1**). This designation will appear in the topmost display of the EN-Free control box. This EN-Free location can also be further defined under **Definition**.

| Indication | Description |
|------------|----------------------|
| 4_1 | EN Free location 4_1 |



You can use the above icons to open, copy, paste, edit and delete a bitmap. The selected bitmap will then come to lie at the location of the '?'

6.2 Adding exercises to a new EN-Free location

| EN-Track Configurator | | | | | | |
|--|--|---------|---------|-------------|-----------|--------------------|
| Defined exercises Templates | Indication Description Image: second secon | | | — í | | |
| · ⊕ · ♣ 2_5 | List of exercises | | | | | |
| I⊞ | Indication Description | Minimum | Maximum | Test values | Dimension | Quantity |
| B 3_3 | Seated Leg Press | 1,0 | 200,0 | 150,0 | Kg | F |
| ■ 1 3_5 ■ 1 35 ■ 1 8KE Bike Beba | Seated Leg Press on time | 1,0 | 200,0 | 150,0 | Kg | F |
| er_a bitc bitc field er_a CR0S Crosswalker Er_b M CRUI Cruiser | 🛃 I Seated Leg Press left leg | 1,0 | 200,0 | 75,0 | Kg | F |
| PULL EN-Tree P | r Seated Leg Press right leg | 1,0 | 200,0 | 75,0 | Kg | F |
| 03 1 rope on time 1-01 Arms - Triceps kickback 1-02 Arms - Behind the back triceps ext. 1-03 Arms - Reversed triceps ext. 1-04 Arms - Standing triceps ext. 1-05 Arms - Triceps push down. 1-06 Arms - Biceps agrincul double hand 1-07 Arms - Biceps armcul single hand 1-09 Arms - Biceps concentration curl 1-09 Arms - Biceps scott curl 1-10 Arms - Biceps scott curl 1-11 Arms - Biceps scott curl 1-11 Arms - Biceps wrist curl 2-01 Legs - Abduction 2-02 Legs - Abduction 2-03 Legs - Anteflextie 2-04 Legs - Straight leg dead lift 2-05 Legs - Standing calf raises 3-02 Chest - Bench chest press 3-03 Chest - Stiting pull-over 3-04 Chest - Lining null-over | | | | | | |
| St Info | ew 🛛 🖨 Erint | | | | | / Save <u>A</u> ll |

fig. 6.2 Selection list of used exercises

Once the new EN-Free location has been named, <u>several</u> exercises can be placed there. This is done as follows:

- In the Templates list, select the desired group of exercises. Double-click and then select the desired exercise from this list. E.g. from PULL EN-Tree P select the exercise 1-01 Triceps kickback
- Copy the selected exercise by clicking on this button at top left.
- Move the cursor to the EN-Free location **4_1** in appear and then click on this.
- Paste the exercise at the desired place by clicking on this button.
- Repeat the above process, if desired, to place several exercises at the EN-Free location

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| Vertrack Configurator Implementation Defined searcing: Templementation Templementation Templementation | | | | | |
|---|---|---------------------------------|---|-----------------------------|--|
| Defined exercise: Template: Implate: Implate: | EN-Track Configurator | | | | |
| Impose Impose Impose Impose <td< td=""><td>Defined exercises Templates</td><td>DATT Everying</td><td>n</td><td></td><td></td></td<> | Defined exercises Templates | DATT Everying | n | | |
| Implete Ist of exercises Implete Implete | Ē | | gii | | |
| Image: Start Start Image: Start Start Image: Start S | Templates | List of exercises | | | |
| Image: State State Image: State State Image: State Image: State <td></td> <td>Indication Description</td> <td>Minimum Maximum Test values Dimension</td> <td>n Uuantity</td> <td></td> | | Indication Description | Minimum Maximum Test values Dimension | n Uuantity | |
| Image: Start Start Image: Start Start Start Image: Start Start Start Start Image: Start | | | 10 | | |
| Image: 2-2 Image: 2-3 Image: 2-4 Image: 2-5 Image: 2-5 Image: 2-5 Image: 2-5 Image: 2-5 Image: 2-5 Image: 2-5 | ₩ 22 <u>-</u> 9 ₩22 <u>-</u> 9 | U2 Crunch | 10 | | |
| B 2.4 B 3.1 B 3.2 B 3.3 B 3.4 B 3.2 B 3.3 B 2.4 B 3.2 B 3.3 B 2.4 B 3.1 B 3.2 B 3.3 B 2.4 B 3.1 B 3.2 B 2.4 B 3.2 B 2.4 B 3.1 B 2.4 B <td>ter 22 2_2 ter v 22 2_3</td> <td>03 Situp</td> <td>10</td> <td></td> <td></td> | ter 22 2_2 ter v 22 2_3 | 03 Situp | 10 | | |
| Image: State State State Image: State State Image: State State Image: State Image: State State <t< td=""><td>i ⊕⁷27 2_4 i ⊕ & 2_5</td><td>04 Push up</td><td>10</td><td></td><td></td></t<> | i ⊕ ⁷ 27 2_4 i ⊕ & 2_5 | 04 Push up | 10 | | |
| Image: Signal Stress Image: Signal Stress Image: Signal | ± | 05 Back stretch | 10 | | |
| Bits Biks Bike Reha Bits Biks Bike Reha CRD Crosswaker Bits Crosswaker Bits Crosswaker Bits Crosswaker Bits Steepen Bits Steepen <td>⊞-*∰* 3_3 ⊞∰* 3.4</td> <td></td> <td></td> <td></td> <td></td> | ⊞-*∰* 3_3 ⊞∰* 3.4 | | | | |
| Bit Cube Decision Bit Cube Decision <td>⊕ ∰ 3_5 ⊕ ∭ BIKE Bike Beba</td> <td></td> <td></td> <td></td> <td></td> | ⊕ ∰ 3_5 ⊕ ∭ BIKE Bike Beba | | | | |
| Image: Child Laker Image: Stable Stable Image: Stable Stable Stable Image: Stable Stable Stable Image: Stable Stable Stable Image: Stable Stable Stable Stable Image: Stable S | | | | | |
| STEP EN/Carlo Stepper STEP EN/Carlo Stepper TRED EN/Mil BALL Exercise bal O Back extension O C Curuch O S Back stretch BOA Balance board D U dumbell exercises D U dumbell exercises FLOD Floor exercises | ERUI Cruiser | | | | |
| FIED EN-Mill BALL Exercise ball 01 Back extension 02 Crunch 03 Sit up 04 Push up 05 Back stretch B- BAD Balance board DU dumbell exercises DU dumbell exercises DVA dynaband exercises FLOD Floor exercises FLOD Floor exercises FLOD Floor exercises to an EN-Free location Fin. 6.3 Adding exercises to an EN-Free location | E → STAI Stair E → STEP EN-Cardio Stepper | | | | |
| I Back extension 02 Crunch 03 Sh up 04 Push up 05 Back stretch I Box Balance board I DU dumbell exercises I C Preview Fint Fin. 6.3 Adding exercises to an EN-Free location | in the second s | | | | |
| 03 Sit up 04 Fush up 05 Back stretch BDA Balance board DU dumbell exercises DU dumbell exercises P FL00 Floor exercises P A TRA Trampoline Find C Preview Find Find Save All Exit Find Find Find | 01 Back extension 02 Crunch | | | | |
| Image: Structure of the st | 03 Sit up | | | | |
| Image: Serve Bell Image: Serve Bell | 05 Back stretch | | | | |
| B → DU dumbel exercises B → FL00 Floor exercises B → TRA Trampoline Image: A proview B → Print Save All Image: A proview B → Floor exercises Image: A proview B → Print Image: A proview Image: A proview < | BING Berlich Exercises | | | | |
| Image: FLOO Floor exercises Image: FLOO Floor exercises <td>DU dumbell exercises</td> <td></td> <td></td> <td></td> <td></td> | DU dumbell exercises | | | | |
| Image: Save All Image: Exit | E State FLOD Floor exercises E La Trampoline | | | | |
| Fig. 6.3 Adding exercises to an EN-Free location | | | | | |
| Fig. 6.3 Adding exercises to an EN-Free location | | eview Arint | | Save <u>A</u> ll | |
| It is also possible to copy a group of exercises from Templates to Exercises used. This is done as follows: In the Templates list select the desired group of exercises. E.g. | It is also possible to copy a grou follows: In the Templates list so | up of exercises from Tem | exercises. E.g. OBALExer | This is done as cise bal | |
| The whole group of exercises will then be automatically placed in the list of | The whole group of exe | ercises will then be automa | atically placed in the list of | Defined exercises | |
| Ereview = A preview of the description of the selected exercise, including photo, if present | A preview = A preview of | of the description of the se | lected exercise, including pl | hoto, if present | |
| | | | | | |
| Print = Printout of the description of the selected exercise, including photo, if present | Print = Printout of | the description of the sele | cted exercise, including pho | to, if present | |
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6.3 Creating, amending and deleting an exercise



By clicking on the + button a copy of the **01 Leg raises bend** will appear under EN-Free location. Move the cursor to the copy and left-click. The content of the defined exercise can now be amended. At top right Indication, Description and the Bitmap of the copy image can be changed.



Fig. 6.4 Creating, amending and deleting an exercise

Exercise details

By activating Exercise details the Magnitude, Dimensions and Precision can be amended if necessary. The range can be subdivided into several increments. Both the Minimum and the Maximum can be indicated, e.g. with dumbbells, which increase in 1 kg-steps from a Minimum of 1 to a Maximum of 24 kg.

| | Quantity | Dimension | Preci | sion |
|----------|----------|-----------|-------|------|
| | | | 0 | ÷ |
| type | Range | | | |
| 🖲 range | Minimum | Maximum | Step | |
| O discr. | 1 | 30 💌 | 1 | ÷ |

With a discrete range there is no incremental buildup. All the steps that can occur are stated. In the example below the EN-Tree pulley is taken as a starting-point.

| | Quantity | Dimension | Precision |
|----------------------------|----------------|----------------|-----------|
| | | | 0 🕂 |
| type | -Discrete valu | es | |
| 🔿 range | 1524 001 | 012141010 | lkc.cc.oc |
| discr. | 1,0-2-40-0-1 | 0-12-14-10-10- | 20-22-24 |
| | | | |

6.4 Different exercise forms possible

It is possible to exercise in three different ways: on load, on repetitions and on time.

1) Training on load

If the target value has been set to **On load** and **repetitions** are being performed, the exercise can be shown as a strength exercise. The exercise is then shown in the list of **Strength exercises**, as discussed in detail under **Training Tab** (see § 5.3.2). Activate this exercise form by ticking **Use of strength exercise**. Entering the desired value can change the function test values. The principle of 1RM value can also be used, as extensively discussed under **Intake Tab** (see § 5.2.2).



2) Training on repetitions or time

Exercises can, however, also be performed on **time**, as is usual in circuit training. Set the **Target value** to **On repet. or time.** Under **training on** activate the radio button **time**. By ticking **Blank at top** the top most field, which is not applicable to training on time, will be left blank.

| 🔲 Hide upper display | | |
|----------------------|-------------|-----------|
| Target value | Test values | train on: |
| C On Load | 1 . | C reps. |
| On reps. or time | 01:00 | ⊙ time |

Training on repetitions: under **training on** the radio button **repetitions** must be activated. The desired number of repetitions can be pre-set.



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In the text field the accompanying text that relates to the selected exercise can be entered or amended. With the first button you can copy the text to the clipboard. The second button pastes the content of the clipboard. It is, however, also possible to create a link to the word processing program of the system with which you are working:



Start up word processor.

First type the text in the desired form and then save the text.

Close the word processor by clicking on **X** top-right. The text will be automatically displayed in the field below.

Save the changes made to the exercise.

Scancel If the changes to the exercise do not have to be executed, click on Cancel.

6.5 Removing an EN-Free location/exercise

De-Activate

With this button it is possible to hide/reveal an exercise definition in EN-Track. You can use this when there are exercises present that have been used once but which are never going to be performed again. In this case the definition must remain present, but you don't want to see it any longer in the exercise lists of EN-Track. When an exercise has been deactivated the name of the exercise will be "crossed through".

By clicking on the – button the selected location or exercise will be deleted.

6.6 Closing the wizard

When the EN-Free location(s), with the exercises they contain, have been created or amended the wizard can be closed. This is done as follows:

Save all changes.

Exit the wizard. EN-Track will start up.



6.7 Activating an EN-Free location

The EN-Free location(s), with the exercises they contain, and EN-Cardio names, can be defined as follows:



Fig. 6.5 Create EN-Free Definition CC

- 1. In the **Options** menu select **Installed exercises**
- 2. Create an EN-Free / EN-Cardio definition card. All EN-Free locations and EN-Cardio devices are now on the definition card.
- 3. Go to the EN-Free control box and insert the chipcard. If the EN-Free location has a definition the display will flash if the "definition" is also on the **Definition cc card**.
- 4. **D** In the topmost display, select the desired EN-Free location.
- 5. Activate the selected EN-Free location by clicking on the Accept button.



Fig. 6.6 Activating an EN-Free Location

6. By putting this card into a EN-Cardio devices, you program this device with it's (new) name. The actual name will appear and you have to confirm it by pressing the green button.



Appendix A: Import

With this function, client data can be imported from external databases. This data must then be in a comma-separated text file in accordance with the following format: <u>Client Informatic</u> Defen Indicatie Extra Deties Help

| <u>Client informatie</u> | Oeren Indica |
|--------------------------|--------------|
| <u>N</u> ieuw | |
| <u>O</u> pen | |
| <u>I</u> nfo | F2 |
| I <u>m</u> porteren | |
| Afdrukken <u>S</u> e | etup |
| <u>S</u> luit | |
| | |

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The format of the data file is as follows:

| | name | type | max. length |
|----------|---------------------|----------------|---|
| Field 1 | Ref. Key | text | 20 |
| Field 2 | Surname | text | 40 |
| Field 3 | Middle name | text | 15 |
| Field 4 | First name | text | 20 |
| Field 5 | Street | text | 40 |
| Field 6 | Street no. | text | 10 |
| -ield 7 | Zip code | text | 10 |
| ield 8 | City | text | 40 |
| ield 9 | Phone private | text | 20 |
| ield 10 | Phone office | text | 20 |
| Field 11 | Date of birth | text | 8 (fixed format: YYYYMMDD) |
| field 12 | Preferred side | integer | 6 (0=Unknown, 1=Left, 2=Right) |
| Field 13 | Physician | text | 40 |
| | | Integer | 6 |
| | Condor | integer | o 6 (O-fomalo, 1-malo) |
| | Gender | integer | |
| Remark | 3: Each line in the | import file MU | IST be terminated by a [Carriage-Return linefeed] |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Example:

| Ref key: | 0105 |
|-------------------|-------------------------------|
| Surname: | Smith |
| Middle name: | Peter |
| First name: | John |
| Street/Street no: | 79 nd Street/12567 |
| Zip code: | NY 10024 |
| City: | New York |
| Phone: | 0345312341 |
| Private: | 0302121234 |
| Phone office: | private |
| Date of birth: | 29011971 |
| Preferred side: | right-handed |
| Physician: | Dr Knowitall |
| Height: | 192cm |
| Weight: | 87 kg |
| Gender: | male |

Example record in the import file:

entry (line) in import file:

0105,"Smith","Peter","John","79th Street","12567","NY 10024","New York","-secret-","09-31 - 0053787530","19641221", 1 ,"Dr Knowitall", 192,87,1



Appendix B: Printing

Example of

•

- a graphical printout
 - shows the progression / changes per exercise unit (thus for all training dates)
 - two numerical printouts
 - · shows the progression / changes per exercise date (thus for all units)
 - Training no. 1
 - Training no. 2

The Numerical printout gives a complete overview of the training content.









Appendix C: EN-Track Hardware

The EN-Track Hardware (the display on the exercise units) has some extra functionality when used in EN-Track mode.



For the complete hardware functionality, please see the EN-Dynamic/EN-Train/EN-Track manual.

The extra functionality with the use of a chipcard is:

1. The resistance display:

- Normally shows the resistance
- When the chipcard is inserted the resistance will increase or decrease to the set point of the protocol. During this period the resistance display will blink, indicating that it is measuring and setting the correct resistance. Wait until after the beep before starting the exercise.
- When the unit has not been used for a while some air may have escaped from the pneumatic system. In that case the set resistance and the measured resistance will not match.

Therefore this display will indicate "------". NOTE: this is a normal function of a pneumatic system. By simply entering a different value (or inserting your chipcard) this problem will be resolved (new resistance will be set, so the measured and actual resistance will be in agreement with each other again).

2. The Next (>) button

- When several days are being written to the card, after every session the last display will show "Stop", and the first unit used the next day will show "Day x". Confirm you want to continue by clicking the Next (>) button.
- When an intake card is made, a 1RM test is executed. If a person exceeds 20 repetitions during this test, the resistance should be increased (as the test becomes very unreliable after 20 repetitions). Increasing the resistance will automatically reset the repetition counter to 0. Once the test has been done correctly, confirm the number of repetitions, and thus conclude the 1RM test on that unit with the Next (>) button.

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3. The time display

- Normally blanked and only shows time during the pause
- if you have a training protocol on a time basis (instead of repetitions) this display shows the time remaining
- During the intake test (in the 1RM mode) this display shows a fluently repeating figure
- If the chipcard cannot be read, this display will show " ------" together with the repetition counter display.

4. The repetition counter display

- This display normally shows the number of repetitions only
- When used with the chipcard it will show the number of series (digits on left) and the number of repetitions (digits on right)
- If the chipcard cannot be read, this display will show " ------" together with the time display.

5. The Reset (R) button

- The reset button can be used to reset the number of repetitions within one series
- Or you can skip a series or a pause
- After the exercise, when all the remaining units are shown consecutively in the upper display (1), you can skip a unit by pressing the reset button while that particular unit is blinking
- If no chipcard is inserted into an exercise unit, you can decrease the resistance immediately to 0 by pressing the reset button for 5 seconds

6. The Chipcard Indication LED

- If a chipcard is inserted and if information is being exchanged this LED will be on. This occurs:
- When inserting the chipcard
- When finalizing a series



Appendix D: Troubleshooting

The resistance displayed on the EN-Dynamic unit shows " ------" Pneumatic values are out of alignment. Simply hit any key, or insert the chipcard

The resistance displayed on the EN-Dynamic unit shows a normal value, but all other displays (those for time and repetitions) show "-------"

This means that the chipcard cannot be downloaded properly, so

- Insert once again or
- Clean the "golden" chipcard contact (rub it with a clean towel)
- Alternatively it means that the chipcard was not meant for the unit it was inserted into, so try another unit.

The chipcard reader does not function

Check via "Tools" and "Chipcard info" if there is any communication If not, check the cables

When the card is inserted, what does the red LED on the chipcard reader indicate?

- 1. LED off = no chipcard inserted or detected
- 2. LED green, continuous light = chipcard is being properly written to / from
- 3. LED green, pulsating light = chipcard is currently in data transfer
- 4. LED yellow, continuous light = chipcard cannot be properly written to / from. The card is not damaged, but is not properly formatted.
- 5. LED yellow, pulsating light = card is damaged. Try to clean the "golden" chipcard contact (rub it with a clean towel), or check the way it is inserted into the reader (upside down ?).

A Day 2 training does not start with the message "Day 2", but immediately refers to a specific exercise

This means that the "Day 1" training was not concluded and still needs to be concluded. In that case the marker in the "Training" screen (see page 18) will be blue (meaning training was started but not completed). To continue you can

- Perform the missing exercises
- · Skip the requested exercises by pressing the <reset> button

A 1RM test was done, but the exercise values do not match

Check the 1RM values actually used in the protocol (select a unit and Edit; the "Edit" screen shows the 1RM value actually used). If these are not according to your expectations consider:

1. When the 1RM test was done on the EN-Dynamic unit, were the 1RM values actually **saved** to the chipcard by **clicking on the (>)** button ?

2. Was the correct chipcard used? (was it really an intake card for the selected person?)

If the 1RM value is correct but the exercise protocol shows resistance values that are not in accordance with your expectations, then consider:

1. Was the currently used protocol based on the currently used 1RM values (and not on old values?). This can be seen by going into the "Edit" field.

Remove all old non-executed training sessions and rebuild a new program. See the next possible error (after a second 1RM test, the protocol is not adjusted with the new reference value).

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After a second 1RM test, the protocol is not adjusted with the new reference value

In order to continue to work with a new 1RM value, you should delete all training sessions (under "Training"(5.2.3) with the "Delete" button) and then **add and edit** a new training.(fig 5.11)



If you do not load any new exercises, EN-Track will continue to calculate with the old reference value !

The Database is corrupted

Several error messages can indicate that the database is corrupted. A database can be corrupted by:

- Improper shutdown of the EN-Track software (e.g. not ending the program with Alt-F4, the X icon or with the exit command under Client, but by just switching off the computer)
- Entering exactly the same data twice
- To deal with database corruption always:
- 1. Make a backup of the existing (corrupted) database
- 2. Run "Repair Database" under "Tools" and "Database" on the original database

To prevent loss of data, consider regular backups of your database (once a week!)

When inserting the chipcard the system immediately refers to another system.

If the chipcard is inserted into an exercise system (for example in the EN-Dynamic 1-1) it shows another system in the upper display (for example it refers to the 1-2, the 1-3 and the 1-4), but it does <u>not</u> set the programmed resistance and number of repetitions on the 1-1 itself. This can be caused by:

- The previous day's training has not yet been completed (see error "A Day 2 training does not start with the message "Day 2" but immediately refers to a specific exercise" on the previous page)
- Under the <Training> tab, under the option <order of exercises>, the option <fixed> was selected. This means that the order of exercises is in accordance with the sequence as they were selected (under the <selected exercises>)
- Under <Exercise Information> under <Details>, the exercise was declared as a <Cooling-down> exercise. This means that this exercise (this unit 1-1) will be automatically referred to as the <u>last</u> exercise in the sequence. Only if all other units (in this example the 1-2, the 1-3 and the 1-4) are completed (or skipped by means of the <Reset> button) will the system refer to the cooling-down units (in this case the 1-1)
- Under the <Exercise Information> under <Details>, the other exercises (in this example the 1-2, the 1-3 and the 1-4) were declared as a <Warm-up> exercise. This means that these exercises will automatically be referred to as the <u>first</u> exercises that should be done in the sequence. Only if they are completed (or skipped by means of the <Reset> button) will the system refer to the remaining units (in this case the 1-1)

Appendix E: Function keys

| EN-Track has a few extra function keys. | | |
|---|---|--|
| F1 | = help function | |
| F3 | = function key | |
| F5 | = read chipcard | |
| | reads all the info from the chipcard and adds it to the database | |
| F6 | = identify chipcard | |
| | shows name + training info, but does not download the information to the database See also under "Identify the information on the chipcard", 5.3.3 | |
| F9 | = refresh the database | |
| | info in the PC used (only useful in networking environment! See also under "Database" 5.3.2) | |
| Ctrl-F8 | = Create Clock card | |
| | This type of card enables you to set the time of all devices. Insert the card into a device and the time apears. With EN-Dynamic devices, the time is then also set, with EN-Cardio devices this new time must be accepted first This function is only active in the main / startup screen. | |
| Ctrl-F10 | = exit client mode | |
| | for the coach/user to exit the client mode screen. To exit, the predefined password should be entered. | |
| See also under "Client mode" | | |
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Appendix F: Custom Report generator

With this function you can generate a custom made report for each customer. The report is based on a template which you can define you self en has placeholders for the different Name and place and indication values for a customer The function is available in the Indication screen.

Only with the data of the selected indication (of one customer) such a report can be generated

The template file is a RTF file (Rich Text Format) or a standard text file. The default format of e.g. MS Word cannot be used, save the document in RTF format!

The following place holders are available:

Personal data:

[*Client ID*]

[*Last name*] [*Middle name*] [*First name*] [*Name*] [*Street*] [*Nr.*] [*Zip code*] [*Place*] [*Home phone*] [*Office phone*] [*Date of birth*] [*Dominant side*] [*Gender*] [*HRrest*] [*Group*] [*Height*] [*Weight*] indication data: [*Date of creation*] [*Coach*] [*Impairment*] [*Location*] [*Diagnosis*] [*Injured side*] [*Current status*] [*Referring physician*] [*Referring physician Diagnosis*] [*Report*] [*Test evaluation*]

Combination of first, middle and last name

The placeholder fields must be entered in the template file exactly as shown. So a field must start with a *left-square-bracket* ([), followed by a *multiple-sign* (*) then the placeholder indicator name as listed above and then closed by a multiple-sign and a right-square-bracket.

So the characters [*Impairment*] in the templa will be replaced by the text in the Impairment field of the selected indication of the customer.



Below an example template:

-- start of example --

Treatment report of:

[*Name*] [*Street*] [*Nr.*] [*Zip code*] [*Place*]

Telephone: [*Home phone*]Date of birth: [*Date of birth*]Gender: [*Gender*]Physician: [*Referring physician*]

Dear [*Referring physician*],

Below you find the treatment repport of [*Name*]. The treatment was based on the following diagnosis:

Diagnosis

Impairment : [*Impairment*]

Location : [*Location*]

Diagnosis: [*Diagnosis*]

Conclusion [*Report*]

We trust to have served you with this.

Yours truly,

[*Coach*] Physiotherapist

-- end of example --

remark:

The chosen style (RTF) of a complate placeholder field will be used in the ouput. Only be sure the style is selected for the complete placeholder field and not a part of it (e.g. only the name and not the brackets) otherwise the placeholder will not be recognized.

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