

# User manual Mosos Comfort products

Version 12.15.17

Great Britain



**Mosos Obstetrics**

**ICT HCTS**  
Part of ICT Group

Classification:  
Internal

## Content

Introduction.....	1
Things to be considered while using Mosos .....	3
Warnings / Precautions .....	3
Symbols/Icons .....	5
Copyright .....	7
Contact .....	8
Mosos - Base .....	9
Mosos <Base> General Maintenance .....	9
General maintenance; Users .....	13
General maintenance; Relations .....	21
General maintenance; Institutes.....	23
General maintenance; Selection lists .....	25
General maintenance; Delete data .....	30
General maintenance; Transfer patient data.....	33
ATNA logging .....	35
Start .....	40
Mosos <Base> Menu .....	40
Login and closing .....	42
Searching for a patient .....	48
Create a record.....	49
Open a record.....	52
Data entry and modifying data .....	54
Memorandum .....	60
TEMP numbers .....	61
Term .....	64
Mosos <Base> Note definitions.....	67
Maintenance; Note definitons .....	67
Maintenance; Modify / Delete note definitions .....	78
Maintenance; Cluster notes .....	80
Notes; General information .....	83
Notes; Note cluster .....	92

Pregnancy report notes.....	94
Button summary Pregnancy report notes.....	94
Pregnancy report notes.....	96
Orders.....	99
Single order .....	99
Repeating order.....	101
Execute order .....	103
Modify order .....	104
Don't execute / Remove an order .....	105
Mosos <PatientView>.....	106
Button summary Mosos <PatientView> .....	106
Mosos <PatientView> Overview .....	109
Mosos <PatientView> Bed overview - Maintenance .....	112
Mosos <PatientView> Tooltip and patient related information.....	116
Mosos <PatientView> Bed overview.....	121
Mosos <PatientView> Delivery rooms .....	123
Admission and discharge.....	124
Button summary Admission and discharge .....	124
Admission .....	125
Discharge.....	127
Nursing assessment.....	129
General information.....	129
Nursing assessment; Components.....	131
Graphs, timeline and fluid balance .....	133
Button summary Graphs .....	133
Graphs; General information .....	134
Graph child .....	136
Graph mother.....	140
Fluid balance.....	144
Timeline.....	146
Mosos - Base - Report generator .....	147
Button summary Report generator.....	147
Report generator; Start.....	148

Report generator; The report.....	153
Note reports .....	155
Mosos - Base – WebDoc (optional) .....	158
WebDoc; Procedure .....	160
Mosos - CTG.....	162
Mosos <CTG> maintenance .....	167
Maintenance; Mosos <CTG> Acquisition .....	169
Maintenance; Mosos <CTG> Console .....	170
Maintenance; Mosos - CTG .....	172
Maintenance; Locations .....	176
(Dis)connect and moving patient .....	180
Mosos CTG; Connect a patient (with HIS) .....	180
Mosos CTG; Connect a patient (without HIS)* .....	184
Mosos CTG; Incorrect link .....	189
Mosos CTG; Disconnect.....	191
Mosos CTG; Moving a patient .....	193
Mosos <CTG> Console.....	195
Button summary Mosos <CTG> Console.....	195
Mosos <CTG> Console; Screen overview .....	198
Mosos <CTG> Console; Show a CTG.....	208
Mosos <CTG> Console; Printing notes / recordings.....	209
Mosos <CTG> Console; Anonymous CTG search / relocate.....	213
Mosos <CTG> Console; CTG review .....	216
Physiological CTG interpretation (optional).....	223
Mosos <CTG> Console; Location indicators .....	226
Mosos <CTG> Console; Fetal movement pattern .....	227
Mosos <CTG> Console; Maternal heart activity.....	228
Mosos <CTG> Console; Maternal parameters .....	229
Mosos <CTG> Console; CTG parameters.....	230
Mosos <CTG> Console; Overview unreviewed CTG's .....	238
Mosos <CTG> Console; Searching for CTGs of previous pregnancies.....	242
Mosos <CTG> Console; Alarm settings .....	244
Mosos <CTG> Central Monitoring.....	249

Central Monitoring; Start .....	250
Central monitoring; View .....	255
Central Monitoring; Selected CTG.....	260
Central Monitoring; Enlarged area.....	263
Central Monitoring; Locations.....	265
Central Monitoring; CTG and location content.....	267
Central Monitoring; Alarm .....	272
Partogram.....	275
Button summary Partogram.....	275
Partogram.....	277
Remote Care.....	282
PregnaOne.....	282
PregnaOne: Streaming .....	287
Mosos - CTG - Emergency procedure.....	289
Help & Support.....	292
Data protection GDPR .....	292
Hardware and software requirements.....	294
Hardware requirements (server and client).....	295
Server requirements.....	296
Client requirements.....	298
Software requirements .....	299
Virus scanner exceptions.....	300
Network infrastructure .....	301
Mosos <Base> Menu .....	303
Mosos <Base> Menu; Screen content.....	304
Mosos <Base> Menu; Mosos Setup installation .....	305
Mosos <Base> Menu Management .....	306
Mosos <Base> Menu management; Start.....	307
Mosos <Base> Menu management; Tab Computer settings.....	308
Release notes .....	312
Hardware and software requirements.....	312
Release notes 12.14 .....	313

Release notes 12.15 .....	325
Index.....	335

## Introduction



### **WARNING due to field safety notice (ref. FA-20251105)**

To prevent the CTG recording of the prior-connected patient from appearing in the live view of Console/Central Monitoring, users should follow these steps:

1. Manual Disconnection Between Patients:

The user shall make sure that connection between Mosos CTG and physical CTG device is inactive/disabled after a patient's monitoring session ends. For example by turning off the CTG device or unplugging all connected transducer cables from the CTG device.

2. When reviewing historical CTG traces, always use the Mosos CTG Console instead of Central Monitoring.

Ensure that you connect and disconnect the patient properly in Mosos. To review a previous CTG trace, use the [Review/Print CTGs] option in the Mosos Console. This feature displays only the CTG data associated with the selected patient.

From version 12.15.18/13.1 onwards, these texts will be incorporated into the manual in the correct place.

This manual contains explanation about various Mosos Comfort\* products\*. Each of these products consists of one or more modules and these modules are often (optional) expandable with various options.

Access to these applications/modules/options depend on which components are installed. In addition, access to the different components also depends on the authorization of the user (logged in).

### Manual (online and print version)

The most current manual for the Mosos products installed with you can be found in our modules (under the 'Help' button in the software).



- In connection with the reader's convenience, certain parts of the content repeats in different chapters.
- The lay out of this manual is formatted for duplex printing.
- To obtain a printed version of the IFU, provided in 7 days at no additional cost, please email [info-hcts@ict.eu](mailto:info-hcts@ict.eu).
- All images used in this document, contain fictional data.
- The images used in this document are intended to support the explanation and are not an exact representation.
- In this manual, 'Mosos' products always refers to Mosos Comfort products (MososNXT products have their own manuals).

## Product classification in the manual

Basic functionalities can be found in chapter 'Mosos Base'.

Product	Contains	Where in the manual?
Mosos CTG	<a href="#">Mosos &lt;Base&gt;</a> <a href="#">General</a> <a href="#">Maintenance</a>	Chapter 'Mosos Base'.
	Start	Chapter 'Mosos Base'. Contains modules like: <a href="#">Mosos Menu</a> , <a href="#">Log in and closing</a> , <a href="#">Create a record</a> , <a href="#">TEMP numbers</a> , <a href="#">Term</a> etc.
	Mosos - CTG	Chapter 'Mosos CTG'. Contains modules like: <a href="#">Mosos &lt;CTG&gt; Console</a> , <a href="#">Mosos &lt;CTG&gt; Central Monitoring</a> , <a href="#">Remote Care</a> , <a href="#">Partogram</a> , Mosos <CTG> WebConsole etc.
	<a href="#">Orders</a>	Chapter 'Mosos Base'.
	<a href="#">Notes</a>	Chapter 'Mosos Base'.
	<a href="#">Mosos &lt;PatientView&gt;</a>	Chapter 'Mosos Base'. <a href="#">Overview Delivery rooms</a> : Standard with <a href="#">Mosos &lt;CTG&gt; Console</a> . Other components are optional.
	Course	Chapter 'Mosos Base'.
	<a href="#">Mosos - Base - Report generator</a>	Chapter 'Mosos Base'.

*\*Mosos; MOnitoring and Storage of Obstetrical Signals / The official product name of 'Mosos Comfort' is 'Mosos'. To differentiate it from the other products in the Mosos line, the term 'Mosos Comfort' is used in this manual. MososNXT products have their own manuals*

## Things to be considered while using Mosos



When copying data, the user must verify this information with the patient in question. ICT HCTS cannot guarantee the accuracy of data obtained from third parties.



The user muting of PC volume is a normal PC function and is not a function of the Mosos software.



To ensure Mosos CTG is displaying the current CTG data, please verify the acquisition indicator (square on the right side in the strip between the FHR and TOCO strip) is blinking.



The user is, and at all times remains, responsible for the information collected and data entered/stored in the Mosos applications with regard to accuracy, punctuality, clarity and completeness.

## Warnings / Precautions



Mosos CTG is intended to be used in monitoring CTGs; however it does not replace the clinician's judgement. Interpretation of CTGs and alarms, CTG/STV analysis functions, and the appropriate (clinical) response remains with the clinician.



The Mosos CTG alarm functions are based on user configuration, and therefore always remain the responsibility of the user.



Mosos CTG may only be used by healthcare professionals trained in Mosos who have an authorization to use Mosos CTG.



Passwords and log-in names are private and should not be shared with others. The Mosos software user should log out after use. Please refer to your own organization for all other security issues regarding Mosos software.



For proper operation of Mosos CTG, only use CTG devices that use HP50 or STAN protocols (complying with the manufacturer's instructions for use). ICT Healthcare Technology Solutions B.V. recommends using a list of CTG devices which can be requested via the internal Mosos administrator in your organisation who is responsible for coordination with the Mosos supplier.



Refer to detailed Mosos CTG user manual before proceeding with Mosos and comply with the instructions. Any serious incident that has occurred in relation to the software should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.



STV is only validated<sup>(1)</sup> as an additional source of information for the caregiver and should only be used during the antenatal period.



For all cybersecurity issues, please follow the instructions provided by your IT department.

1. Wolf H, et al., *Computerized fetal cardiotocography analysis in early preterm fetal growth restriction - a quantitative comparison of two applications*. *J Perinat Med*. 2019 May 27;47(4):439-447. doi: 10.1515/jpm-2018-0412. PMID: 31005952.

# Symbols/Icons

## Manual symbols



In this manual warnings are marked with this symbol. A warning alerts the user to potential serious outcomes (death, injuries or unwanted events) for user/patient.



In this document recommendations are marked with this symbol. A recommendation is an advice that will help the user to use the software safely and effectively.



Note, Attention or Tip: Additional informations and tips about working with in the programs.



Important information about how to use the manual.



If a word is placed in square brackets, it is describing a button in the software.



This symbol indicates where clients/administrators can obtain additional information.



This symbol indicates the manufacturer's contact details.



This symbol is put in place before the release date of this software/documentation.



The CE mark, Conformité Européenne. Gives information about the guidelines/conditions/requirements to which the product/software must conform.



This icon denotes that this product is a so-called 'Medical device', as stipulated in Directive (EU) 2017/745 (MDR).



Unique Device Identifier. Concerns a unique identification number for medical devices.

## Application icons

After starting a application, the corresponding icon shows in the taskbar.



Mosos Analysis / Statistics / Report application



Mosos <Base> Menu



Mosos Maintenance applications



Mosos - CTG



Mosos <CTG> Central Monitoring



Mosos <PatientView>




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	<p>ICT HCTS devotes the utmost care and attention to the content of this manual. All patient data that are displayed are fictitious data, any similarities to actual existing individuals and situations are purely coincidental.</p> <p>However, the possibility always exists that part of the information presented in this document is incomplete, incorrect or obsolete. ICT HCTS strives to update this document at regular intervals. Any change to the content will be made without prior notice.</p> <p>As ICT HCTS's products are subject to continuous improvement, the screen shots in this document may differ to a certain extent from the actual look and feel of the Mosos application. The application's appearance also depends on the version, authorisation and settings.</p>
	<p>To use the Mosos software correctly, you need to know and understand the contents of the user manual. The manual for the Mosos products can be found in the module behind the Help button [?].</p> <p>Any user of Mosos software should be aware of the general and specific (applicable to the software) recommendations and warnings. Please refer to the Mosos manual for these recommendations/warnings, chapter '<a href="#"><u>Introduction, Things to be considered while using Mosos</u></a>'.</p>
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## Contact



### Support

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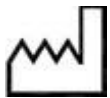
### Manufacturer

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0344

Mosos CTG (including Mosos Base)

Mosos Ultrasound\*\*\*

Mosos Patient Record\*\*\*



Mosos CTG (01)8420299774902(8102)12.15.17

*\* Please note that the manufacturer name is NEXUS ASTRAIA B.V.. You may still encounter references to ICT Healthcare Technology Solutions B.V. (ICT HCTS) within this manual. This reflects the ongoing harmonization process following the acquisition of ICT HCTS by NEXUS AG.*

*\*\* This edition is valid from the listed version number through to a subsequent edition.*

*You can request the most up-to-date manual via ICT HCTS (support desk).*

*\*\*\* This document contains information about Mosos CTG, Mosos Ultrasound and Mosos Patient Record. ICT HCTS has MDR certification for Mosos CTG. The products Mosos Ultrasound and Mosos Patient Record do not fall under MDR certification.*

## ***Mosos - Base***

### Mosos <Base> General Maintenance

- [Terms](#)
- [Using Mosos <Base> General Maintenance](#)
- [Start](#)
- [Saving files](#)

Each application has one or more additional programs for the purpose of program setting / maintenance. Also some additional programs are provided that relate to settings which all applications use.

With these modules it is possible, without supplier intervention, to view/modify settings. These additional programs are controlled by a Mosos administrator.

#### **Terms**

##### *User*

A person who is authorised to use relevant Mosos modules. He/She has been granted a login name and password to access one or more Mosos modules.

##### *Administrator*

A person authorised to manage the relevant Mosos modules. He/She has been granted a login name and password to access relevant modules (especially maintenance programs) as user and administrator.

#### **Administrator activities**

- Maintain program/modules settings
- Archiving CTG's (if applicable)
- Maintain selection lists
- Create new user accounts
- Maintain user data
- Practical support to users
- Train (new) users
- Record / Report software failure
- Act as contact person for supplier

#### **Using Mosos <Base> General Maintenance**

- In Mosos <Base> General Maintenance a number of components of different Mosos programs/modules are managed centrally.

- Tab 'Users': To indicate which authorisation level a user has with respect to the various programs and tables.
- Tab 'Relations' and 'Institutes': Maintenance of relations and institutes.
- Tab 'Selection lists': Maintenance of selection lists in various programs.
- Tab 'Delete data': Offers the possibility to remove patient data from the Mosos database.
- Tab 'Extra fields': Fields can be defined and added to a tab or window.
- Tab 'Correspondence': Edit a part of basic layout and content of letters.
- Tab 'CS' is only available/visible for technical administrators. It is related to maintaining information retrieved from the Hospital Information System.
- Only administrators can edit/add/remove components in Mosos General Maintenance.
- Specific (program) settings are in the maintenance program of the various Mosos programs.

## Start

1. Close (if necessary) active Mosos modules.
2. Open Mosos <Base> Menu.
3. Open tab 'Mosos - Base'.
4. Click at 'Mosos <Base> General Maintenance'.
5. Enter the login procedure to gain access.



By clicking in the menu bar at 'Program' and the 'User login', users can be changed without terminating the program first. This function can also be used to lock the program if the user wants to leave the workplace temporarily and resume working later.

## Saving files

Sometimes files can be saved from Mosos onto the computer. In that case, the user should select/create a file location, where this file will be stored. A brief explanation of this Microsoft® functionality is provided below.



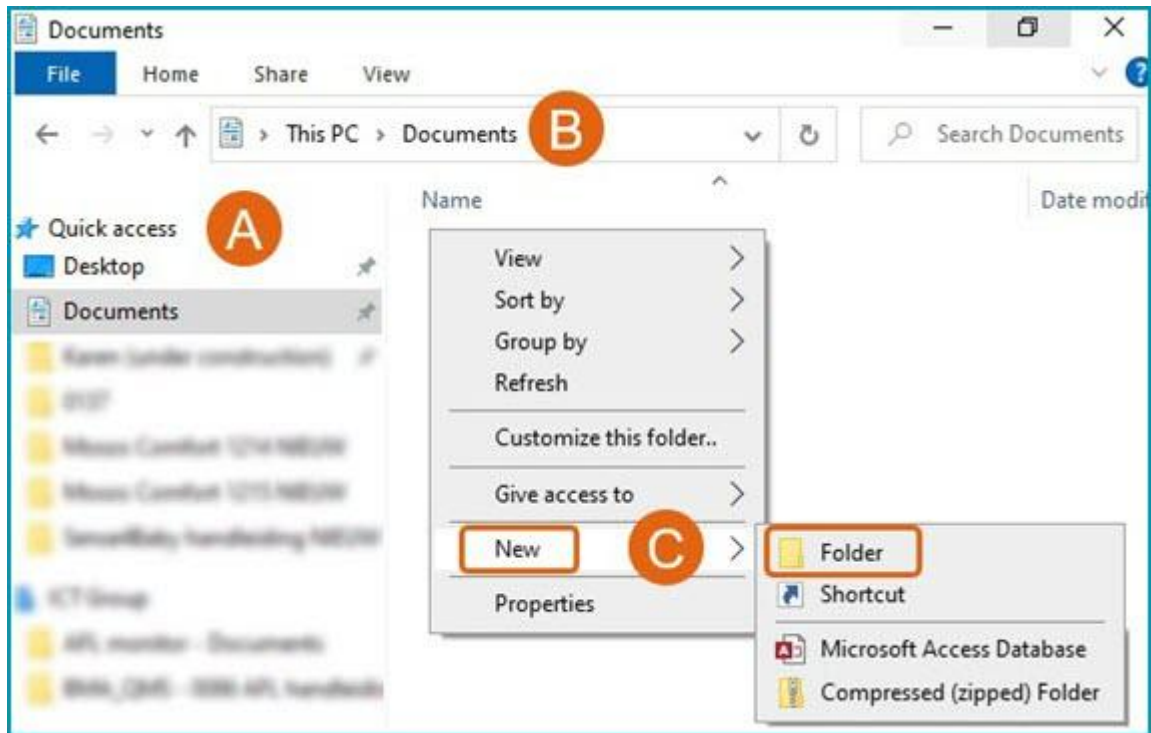
Often an institution will have agreements in place about where files should be stored and what name should be assigned. Check with the administrator in advance.

In the example provided below, we will work with Mosos <Base> general maintenance and we will save loggings. The method in Windows® Explorer is always the same.

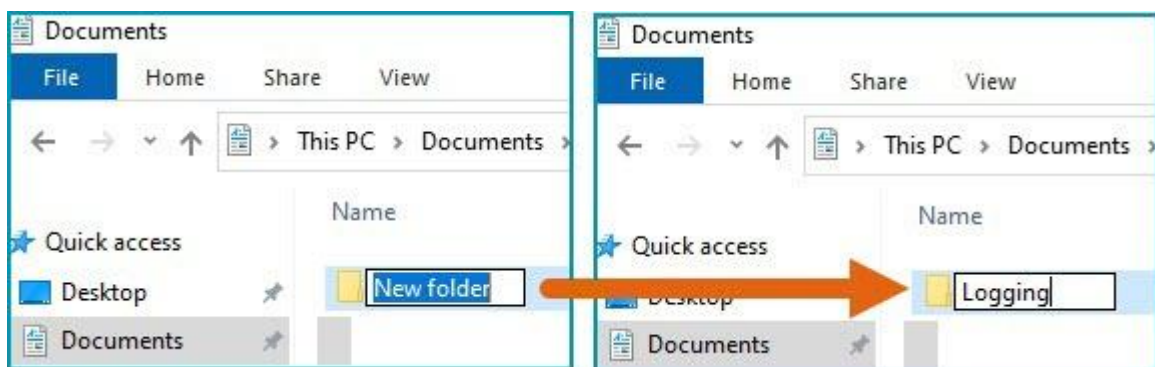
1. Click on the Start or Search function in the toolbar in the bottom left corner and open Windows Explorer. The Windows Explorer icon is often also present in the toolbar.



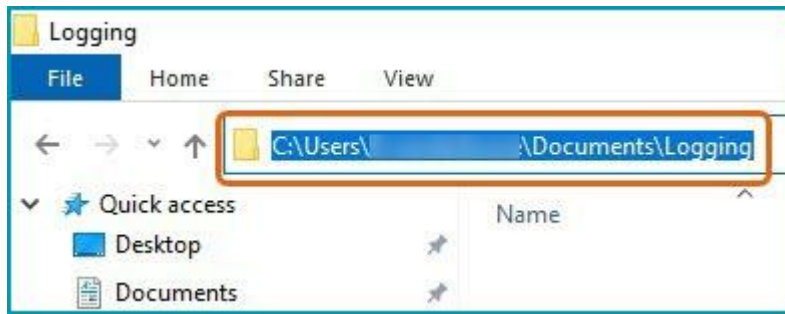
- Now search for the location where the file needs to be saved. You can use the file structure on the left side (A).



- Open a new folder in the desired location. Use the right mouse button to click on the empty field and then select 'New' and 'Folder' (C).
- Assign a name to the new folder.



- Double click on the name to open the folder. The folder is currently still empty. Next, double click on the bar above the folder to select the location name. The name will appear in blue.



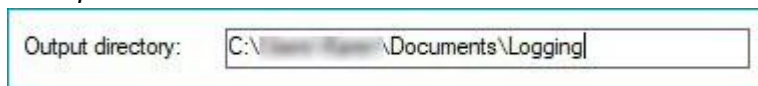
6. Copy this name. Use the combination 'Ctrl' + 'C' (keyboard) or use the right mouse button to click on the name and then click on 'Copy'.
7. Open 'Mosos <Base> general maintenance' and click on 'Program' in the top left corner and then on 'Collect general activity logging'.



If you are working in a different program/application, go to the position where you need to enter the copied location name.

8. Click in the field where the location name needs to be entered. In this program, this is after 'Output directory'.
9. Paste the location name in this field. Use the combination 'Ctrl' + 'V' (keyboard) or use the right mouse button to click on the name and then click on 'Paste'.

*Example*



10. Clicking on [OK] will automatically generate a file and this file will be stored in the newly created folder.
11. This allows file locations to be created at various sites in the program, where generated files are stored.
12. The Microsoft site (<https://support.microsoft.com/>) provides the most up-to-date explanation about creating/saving files in Windows Explorer.

## General maintenance; Users

- [Add new user data](#)
- [Entering the login name and abbreviated name](#)
- [Setting up a password](#)
- [Setting up authorisations](#)
- [View and change user data](#)
- [Remove or block a user](#)
- [Reinstate or unblock a user](#)

All users who work with one or several programs of the Mosos Suite on a daily basis receive access through a login name and password.

The Mosos programs recognise the user's information and authorisations based on the entered login name.

The information and authorisations are determined per user in the tab 'Users'. A user is automatically a relation (internal or external contact person). The user's personal data can therefore also be found and - if desired - changed via the ['Relations'](#) tab.

Follow the login procedure; the required authorisation level is Mosos Administrator. To receive access to the 'Users' tab, a user needs authorisation with regard to 'Relationships'.

Adding a new user can be done in a few steps, which are described below:

1. Enter the personal data (type of relationship, name, job title, etc.).
2. Enter the login name and abbreviated name.
3. Set up password usage.
4. Set up authorisations.



The current logged in user of Mosos <Base> General Maintenance is only allowed to provide authorisation to users for a program he/she is authorised. It's not possible to change his/her own authority level.

### Add new user data

1. Click on [New] in the lower right of the screen.
2. Select the 'Type of relationship'(the person's job title) from the selection list. Although making changes is possible, it is important for the correct type to be selected. This is because the user's personal data are subsequently placed in a corresponding (relationship) table. The table is also used in other locations in the Mosos Suite.



The content of the selection list in the 'Type of relationship' field can be determined with the help of the 'Potential users' option under the 'Option' menu. Place the check mark (v) in front of all user types that must appear in the selection list. Usually this will be internal job titles, possibly also the 'Other relationship' type.

3. Select the name of the user from the selection list; the data of the new user to be added could already have been entered through 'Relationships'.

If the new user's name does not appear in the selection list, then click on the [modification button](#) after the 'Name' field. This will open the 'Add <Type of relationship>' window. Enter the last name (mandatory field). Complete the other fields as well, if desired.

Completing the other fields or leaving them blank can have an effect on how the information is displayed on letters and envelopes, among other things. It is therefore suggested that, in addition to the last name, at least the surname prefix (if applicable), the first initials and the job title fields are also completed.

4. Save the personal data entered: Click on [OK] to save the data or click on [Cancel] to exit the window without saving the data. To continue entering data, use the [New] function.



The last name does not have to be unique. If there are two or more users with the same last name, then they have to be distinguished from each other by at least one other field in regard to name (surname prefix, first initials or first name).

### Entering the login name and abbreviated name

1. The 'Type' and 'Name' fields have already been filled in. Changes can still be made using the modification button after the fields. See also '[Viewing and changing user data](#)'.
2. Enter the login name. This is a mandatory field. A systematic work method is recommended, for example: the last name (without surname prefix) of all users is their login name.
3. Enter the abbreviated name, with a minimum of one and a maximum of four characters. This is also a mandatory field. One option is to use the user's initials for the abbreviated name. Here to a systematic work method is recommended.

A good example of an abbreviated name is: the first letter of the first name and the first two or three letters of the last name. Do not use any surname prefixes.



The login name and abbreviated name must be unique. The abbreviated name also remains unique throughout the entire history. Even if the user in question is deleted, the abbreviated name can no longer be entered for another user. This is necessary so that the system can continue to distinguish users (including deleted users with the same last name) from each other.

## Setting up a password

1. Click on [Password settings]. A dialogue window appears.
2. • *User has no password*; When creating a new user account, this is a 'read only' functionality. From a safety perspective, it is not permitted to work without a password. In the case of existing accounts (created prior to software version 12.15.14) where this option has been ticked, the user can still log in without a password.



If the tick is removed from an existing account and a different setting is selected, then the option will be come 'read only' and this can no longer be selected at a later stage.

- *Password will never expire*; Place a check mark here if the password's validity will never expire. If desired, a validity duration can be determined using the 'Password settings' option in the 'Options' menu.
  - *User may change password*; Place a check mark here if the user is allowed to change his/her password without the intervention of the application administrator. This is only possible if the user still knows his/her old password. If not, then intervention on the part of the application administrator is required.
3. [Reset password] can be used when the user has forgotten his/her personal password and therefore can no longer obtain access to the Mosos programs. The user can use this button to reset his/her password.
  4. Confirm the entered settings by selecting [OK] or exit the window without saving the data by pressing [Cancel].

Passwords are confidential. Creation (and modification, if need be) of passwords can also be done by users themselves. In principle, a password only needs to be created once. This is possible using any Mosos Suite program for which the user has at least 'user' authorisations.



- *Logging in for the first time*: Allow the new user to start the Mosos program for which he/she has at least 'user' authorisations. The user now enters the login name he/she has been assigned in the [Add new user] screen.

- The general and one-time password for obtaining initial access is: pw. After this password has been entered the system automatically displays fields where the user can enter his/her personal password. Change the one-time password (first time log in) is not possible in Mosos <PatientView>.

Some settings for password use can be controlled by selecting 'Password policy' in the menu 'Options' (menu bar). The following settings can be viewed/adjusted:

- *Number of days which users must register for the first time.* Before first use of the system, the user should register within the designated number of days.
- *Maximum number of login attempts with incorrect password.* This is a 'read only' setting, and this can only be changed by the manufacturer. Following (a maximum of 9) failed log-in attempts, the authorisation for the relevant log-in name will be blocked. This counter will automatically revert to 0 after each successful log-in attempt.
- *Number of months after which the user must change password.* If option 'Password never expires' is unchecked, the user must change password after the indicated number of months.
- *Minimum length for passwords.* A password must have a minimum number of characters.
- *Use complex passwords.* This is the default setting at installation. A complex password is case sensitive. In addition, the complex password should contain at least one capital letter, one lower case letter, one number and one other symbol.

## Setting up authorisations

### All rights

If this option is check marked, the user has all rights in all programs. A user with this authorisation is an administrator. Complete authorisation can be undone by removing the check mark and specify the rights on the right hand side of the screen.

### Failed login attempts

This will show how many failed login attempts were made with this account. The number is automatically tracked.

### Specified rights

Specified rights per program can be configured in the right-hand side of the screen. All the programs in the Mosos Suite are listed, but only the installed programs can be operated. You must determine for each program whether – and in what way – the selected user can work with the program. The selection list contains 4 options:

#### *None*

The selected program may not be used.

*User*


The selected program may be used.

*Administrator*

The selected program may be used and it is also possible to maintain program settings.


*Read-only*

It is possible to create a user who can only read records in Mosos. Items will be viewable only, it's not possible to edit/enter data.

 For the 'read-only' authorisation you can print part of the dossier, for example the notes or CTG registrations.

You can use the option boxes next to the selection list to indicate which rights the user has in regard to the subject-matter selection lists in the various Mosos programs. The rights for maintaining relationships and settings are assigned in the same way.


By placing a check mark, user obtains access to the relevant function. Click [OK] to save data.

 It is recommended that rights pertaining to the subject-matter selection lists and deletion of data only be granted to a small number of users or administrators, for example, only to administrators.

- If a user has no rights, then no rights can be assigned in regard to the selection lists.
- If a user does have user rights for a program, then 'View' (V) is checked by default. This means that the user may only view the selection lists. The options 'Add once' (O) and 'Add permanently' (A) can be ticked.
- If a user has administrator rights for a module, then "View" (V) is always ticked. In addition to this, the options "Add once" (O), "Add permanently" (A), change (C) and delete (D) can be ticked.

In other words, a user can be assigned more rights than only viewing and an administrator does not always have all rights.

Using the Review CTGs, MososWeb pages, Delete data and Report generator option boxes, it is possible to indicate whether the user in question is authorised to place a 'digital signature' in CTG recordings, to view a number of MososWeb pages, to receive access to the "Delete" tab and/or to receive access to the 'Mosos Report Generator' program.

 The authorisation 'Modify' applies to 1. Selection lists (containing professional content) and 2. Data of internal and external relations.  
The authorisation to modify a description is only intended to correct spelling errors

or to add additives. Modifying existing selection lists or tables containing either professional data or relations affects the entire history. The meaning of the original input should therefore not be changed during modification. This is not only necessary to preserve historical data correctly, but also to preserve the input of data used in reports and statistics.

In case of a relocation of a relationship, a new partnership between existing relations etc., a new item has to be created in the correct relation table. New items, with a complete new meaning, must be added as 'new'. The old items should be placed in the [Remove from] list.

This method also applies to the subject matter-related selection lists. New items with a new meaning must also be added as new. Items that should no longer be used must be moved to the [Remove from list].

### MososWeb pages

MososWeb pages: Check the box if the user is authorised to view a number of MososWeb pages. This pertains to the following pages: Diagnostics, Migrations, Licenses overview, Flags and Plugins.

### Send documents

If the 'report link' is installed, this option is available. By placing a check mark a user can mail correspondence directly from the program.

### Delete data

Refers to the tab 'Delete data' in Mosos <Base> General Maintenance. Administrators can use this tab to delete data/records (child, pregnancy, patient and lab results). The deletion is final!

From safety perspective therefore two authorisations are needed. First: access to Mosos <Base> General Maintenance and secondly, access to the tab 'Delete data'. By placing a check mark here, access to the tab 'Delete data' is granted.

### Report generator

Refers to the program Mosos - Base- Report Generator. No check mark = no access to this program. Placing a check mark = access to the program with login name / password.



A user can be authorised for Mosos - Base - Report Generator only. However, it's recommended that this user is well known with the user of the other programs too. Unless the user needs to export report definitions to Excel<sup>®</sup> and doesn't need to make changes in the report definition itself.

## Relations

Refers to the tab 'Relations' in Mosos <Base> General Maintenance. Placing a check mark below A/C/D will allow the user to Add/Change/Delete data in the relation list. That user is also authorised to perform these actions directly from other Mosos applications he/she has access to.

## Institutions

Procedure is similar to the tab 'Relations'. This tab is to identify 'Institutes' such as hospitals, partnerships, private practices etc.

## View and change user data

1. Select the user in question.
2. Click on [Modify] in the lower right of the screen. This will open the 'Change user data' window.
3. To change the type of user or the personal data: click on the [modification button](#) next to the 'Type' or 'Name' field, depending on the desired type of change.
4. This will open windows that are the same as the windows that are used when entering a new user. Implement the desired changes in the available fields.
5. If the user wants to reset his/her password, click on [Password settings] and then on [Reset password]. The user can then enter the new password. See also '[Setting up a password](#)'.
6. If desired, change the user's authorisations.
7. Confirm the entered settings by selecting [OK] or exit the window without saving the data by pressing [Cancel].



A user is automatically also a relation (internal or external contact person). The user's personal data can therefore also be found and changed, if desired, in the 'Relations' tab. The intent is for users to be created once, after which they are displayed in the system as a user and/or relationship, among others things, for the purpose of statistics that can be created per user or relationship.

## Remove or block a user

### Blocking

The respective user's personal details remain in the current selection list but the user can no

longer obtain access to the Mosos programs. This situation also occurs automatically after a number of login attempts with incorrect data (to prevent possible misuse of the access).

## Delete

The respective user's personal details is removed from the current selection list. The user also no longer has access to the Mosos programs.



If the 'delete' action was an error, do not recreate the user, but reinstate the data. See '[Reinstating or unblocking a user](#)'.

1. Select the user whose personal details are need to be deleted or blocked.
2. Click on [Modify] in the lower right of the screen. This will open the 'Change user data' window.
3. Place a check mark in front of the 'Blocked' or 'Deleted' option.
4. Click on [OK] to save.

## Reinstate or deblock a user

If a user's personal data and authorisations have been deleted or blocked, then it is possible to undo the situation.

1. Place a check mark in the 'Show deleted users' option.
2. Select the respective user and click on [Modify] This will open the 'Change user data' window.
3. Remove the check mark in the 'Blocked' or 'Deleted' option.
4. Click on [OK] to save.
5. Reset the password, if necessary, so that the user has to create a new personal password.

## General maintenance; Relations

- [Add new relation](#)
- [Modify relation data](#)
- [Remove / Reinstall relation data](#)

The Mosos programs use, inter alia, a relationship file to generate correspondence. This file contains the addresses of midwives, gynaecologists and other relations. Users of Mosos are also registered as an relation. At the tab 'Relations' these addresses can be maintained.



The tab 'Relations' is accessible when the administrator/user has at least the A (add) authorisation. This is set at the tab '[Users](#)'.

### Add new relation

1. Go to the tab 'Relations' and select the relation type.
2. Click at the [modification button](#) on the right hand of the field 'Relation'.
3. The screen 'Add relation' will open.
4. Enter data of the new relation.
5. The following only applies to external relations: If a relation must be linked to an institute, the corresponding address can be selected by entering the institute type and after that, select the corresponding hospital/practice.

If the required institute is not in the list, it can be entered by clicking the modification button on the right hand of the field 'Current ...'.

6. Click [OK] to save data or [Cancel] to close the window without saving data.

### Modify relation data

1. Go to the tab 'Relations', click in to the 'Relation type' field en select the relation type that needs to be modified.
2. Click on the right hand side of 'Relation' at the triangle to open the list.
3. Select the relevant relation. These are listed in alphabetical order, shown on surname.

4. Details of the selected relation are displayed on the right side of the screen.
5. Click the modification button (next to the 'relation' field) to open a window where it is possible to modify data.
6. Enter modifications.
7. Click [OK] to save data or [Cancel] to close the window without saving data.

### Remove / Reinstall relation data

1. Go to the tab 'Relations', click in to the 'Relation type' field en select the relation type that needs to be deleted/reinstalled.



To show relations which are deleted, place a check mark in the box 'show deleted relations'.

2. Select the relevant relation. These are listed in alphabetical order, shown on surname.
3. Select the relevant relation. These are listed in alphabetical order, shown on surname.
4. Details of the selected relation are displayed on the right side of the screen.
5. Click the modification button (next to 'relation' field) to open the window 'Modify xxxx'.
6. To remove: Click [Remove from list], followed by clicking [OK] to save modifications or [Cancel] to close window without saving.



When a relation has a user account as well, this account must be closed before it is possible to delete the relation from the list.

7. To reinstall: To reinstall a relation, perform step 1 to 5. Then click [ Insert in list ]. Click [ OK ] to save data or [ Cancel ] to close the window without saving data.

## General maintenance; Institutes

- [Add new institute](#)
- [Modify institute data](#)
- [Remove/Reinstall institute data](#)

On the tab 'Institutes' the addresses of the various institutions can be managed. Institutions (practices) to which relations are associated, which patients can be referred to or which patients are referred from.



The tab 'Institutions' is accessible when the administrator/user has at least the A (add) authorisation. This is set at the tab 'Users'.

On the tab 'Institutions' the addresses of the institutions can be imported, modified and deleted.

### Add new institute

1. Go to the tab 'Relations' and select the institute type.
2. Click at the [modification button](#) on the right hand of the field 'Institute'. The screen 'Add xxxxx' will open.
3. Enter data of the new institute.
4. By entering a 'Starting date' and 'Ending date' to the institute it is possible to filter during data import. Only currently valid institutes will be displayed in drop-down lists.



This setting relates to the choice of hospital where a previous birth has taken place. It may occur that the previous parturition has taken place in the same building as the current parturition, but the name of the hospital has ben changed in the meantime.

5. Click [OK] to save data or [Cancel] to close the window without saving data.

### Modify institute data

1. Go to the tab 'Institutes', click in to the 'Institute type' field en select the type that needs to be modified.
2. Click on the right hand side of 'Institute' at the triangle to open the list.
3. Select the relevant institute. These are listed in alphabetical order.

4. Details of the selected institute are displayed on the right side of the screen.
5. Click the modification button (next to the 'institute' field) to open a window where it is possible to modify data.
6. Enter modifications.
7. Click [OK] to save data or [Cancel] to close the window without saving data.

### Remove/Reinstall institute data

1. Go to the tab 'Institutes', click in to the 'Institute type' field en select the institute type that needs to be deleted/reinstalled.



To show institutes which are deleted, place a check mark in the box 'show deleted Institutes'.

2. Click on the right hand side of 'Institute' at the triangle to open the list.
3. Select the relevant institute. These are listed in alphabetical order.
4. Details of the selected institute are displayed on the right side of the screen.
5. Click the modification button (next to 'institute' field) to open a window where it is possible to modify data.
6. To remove: Click [Remove from list], followed by clicking [OK] to save modifications or [Cancel] to close window without saving.
7. To restore a deleted institute, perform steps 1 to 5.
8. Click [Insert in list].
9. Click [OK] to save data or [Cancel] to close the window without saving data.

## General maintenance; Selection lists

- [Select selection list](#)
- [Overview content](#)
- [Mutate selection lists](#)
- [Add new description](#)
- [Modify description](#)
- [Change history](#)
- [Remove description](#)
- [Reinstall description](#)
- [Sorting content selection list](#)

On the tab 'Selection lists' the expandable selection lists can be managed.



The tab 'Selection lists' is accessible when the administrator/user has at least the A (add) authorisation. This is set at the tab 'Users'.

The tab 'Selection lists' offers the following options:

- Viewing the content of a selection list, including any removed descriptions, and the descriptions that are used only once.
- Adding new descriptions.
- Modify new descriptions.
- Delete new descriptions.
- Reinstall deleted descriptions.
- Sorting of the content of a selection list.

### Select selection list

1. Go to the tab 'Selection lists' and select the concerning program.
2. Select the name of the screen where the selection list occurs.
3. Select (at field 'Selection list') the name of the selection list.
4. On the right side of the screen an overview of items from the list will show.




It's possible to show items that have been added to be used once and/or deleted items. If desired, place a tick in the option boxes 'show items added for one-off use' and/or 'show deleted items'.

### Overview content

After selecting the required list the content is shown on the right side of the screen, beneath 'Overview', in a table. This table consists of one or several columns:

- Description.

- If applicable: anomalous finding.
- If marked: items used once.
- If marked: deleted items.

 Some selection lists contain a lot of descriptions. In such cases, it may take some time to open a selection list. Do not start 'randomly clicking'. This will only slow the reaction speed down further.

In case the overview table contains a lot of descriptions, horizontal and vertical scroll bars will appear automatically.


### Mutate selection lists

It is possible to expand selection lists with new descriptions, to change existing descriptions, or to remove descriptions from the list, via the field 'Description' in the left section of the tab sheet.

#### Add new description

1. Select the required selection list.
2. Click the [modification button](#) on the right hand of 'Description' to open a window where it is possible to add a new description.
3. Enter the description and, if applicable, necessary additives and/or place a check mark before 'anomalous finding'.
4. Click [OK] to save data or [Cancel] to close the window without saving data.

#### Modify description

 The authorisation 'Modify' applies to 1. Selection lists (containing professional content) and 2. Data of internal and external relations.

The authorisation to modify a description is only intended to correct spelling errors or to add additives. Modifying existing selection lists or tables containing either professional data or relations affects the entire history. The meaning of the original input should therefore not be changed during modification. This is not only necessary to preserve historical data correctly, but also to preserve the input of data used in reports and statistics.

In case of a relocation of a relationship, a new partnership between existing relations etc., a new item has to be created in the correct relation table. New items, with a complete new meaning, must be added as 'new'. The old items should be placed in

the [Remove from] list.

This method also applies to the subject matter-related selection lists. New items with a new meaning must also be added as new. Items that should no longer be used must be moved to the [Remove from list].

1. Select the required selection list.
2. Select the required description. Open the drop-down list and search. It is also possible to enter the first letter of the description (and scroll down the list) or enter the whole description.
3. Once the description is found and selected, click the modification button. A new window will open where it is possible to modify the description.
4. Click [OK] to save data or [Cancel] to close the window without saving data.
5. After clicking on [OK], a screen will appear in which the administrator is informed that the amended description can only be stored if the original meaning remains unchanged.
6. Place a check mark to confirm this and click on [OK].


### Change history

1. Select the required selection list.
2. Select the required description. Open the drop-down list and search. It is also possible to enter the first letter of the description (and scroll down the list) or enter the whole description.
3. Once the description is found and selected, click the modification button. A new window will open where it is possible to modify the description.
4. Click on the [Show history] button.
5. A summary of all changes relating to this item will be displayed. The summary includes: Date, time, name of the individual who implemented the change and the change. The focus (blue background) is on the last implemented change.

### Remove description

Removal of a description refers to removal from the selection list. This description can no longer be selected in daily practice during use of the a Mosos module.

1. Select the required selection list.
2. Select the description to remove.
3. Once the description is found and selected; click the mutation button. The window 'Modify <description>' will open. Click on the button [Remove from list].
4. Click [OK].

	<p>Some descriptions can't be removed/modified. These are the 'fixed items'. These items are used in other applications (like: Statistics or Reports) and are identified by their light gray color. The [Remove from list] button is not present for these items.</p>
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### Reinstall description

A description that has been removed from a selection list can be returned if desired.

1. Select the required selection list.
2. Place a check mark before 'show deleted items' (on screen and in export).
3. In that case, select the description that needs to be removed. A deleted description can be recognised by the --deleted-- designation following the description.
4. Once the description that needs to be restored has been found and selected: click on the mutation button. The 'Changes <description>' window will open, click on the button [Place on list].
5. Click [OK].

### Sorting content selection list

The default sorting of selection list content is in alphabetical order. In the daily use of the selection lists via the Mosos modules, this is not always the most desirable type of sorting. Sometimes it is desirable to place the most used descriptions at the top of the list. Or it is desirable to show only a small part of a list at first. It is possible to make a 'user defined list'.



When using selection lists in daily practice, the 'user defined list' is displayed initially. If the user does not find the selected description in the "preference list", the full options list can still be opened by selecting the option 'show full list'.

A 'user defined list' can be created as follows:

1. Select the required selection list.
2. The list opens and the items will be shown in the section 'Other items' and, if there is already a user defined list, this will also display under the heading 'User Defined'.
3. After selecting an item it can be moved between both sections by using the [>>] and [<<] buttons.
4. Use the 'up' and 'down' arrows to rearrange their position if necessary/desired.
5. The items placed in 'Preferred items' are the so-called 'preferred list'.

## General maintenance; Delete data


- [Select patient](#)
- [Select data](#)
- [Delete data](#)
- [Additional information](#)

	Deletion is FINAL, it is not possible to reverse the procedure!
	The tab 'Delete data' is accessible when the administrator/user has at least the D (delete) authorisation. This is set at the tab 'Users'.

On the tab 'Delete data' it is possible to delete data concerning the child, patient, pregnancy and/or lab results. Deleted data will not be displayed in the various programs.

### Select patient

1. Select the patient where data needs to be removed.
2. Click on the [Select patient] button or click in the menu on option 'Programma > Select patient'.
3. The window 'Select patient' will show.
4. Select the relevant patient.

	You can search for deleted patient records by using the checkbox "also show deleted records". You can recognise a deleted patient record by the fact that the name has been struck through (in the search result).
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5. After selecting a patient, the patient details are completed in the tab sheet and a tree structure appears with all data that are known for this patient.

### Select data

In the section 'Data' section it is possible to select the data to be deleted. The following characteristics (depending on whether entered in the file) may be present:

#### *Patient*

Name, Number and Date of birth.

### *Gravidity*

Gravida, EDD and Partus number.

### *Child*

Ranking number, Name , Date of birth and Sex.

### *Lab result*

Number, Date, Time and Gravidity.

The data tree can be expanded/collapsed by clicking at the '+' and '-' signs or by using the arrow keys (left/right) on the keyboard.

Data can be selected by clicking with the left mouse button on the relevant item or by using the arrow keys (up/down) on the keyboard.

When a pregnancy is deleted, associated lab results will not be deleted automatically. These may be removed manually, if desired. It is not possible to select/delete CTG recordings and ultrasound data separately.

## Delete data

1. Select the data you want to delete. The selection is indicated by the blue background colour.



By pressing the [Ctrl] key while selecting it is possible to select multiple data simultaneously.

2. Click [Delete].
3. Enter a reason (mandatory field, free text).
4. Before the data is actually deleted, the program asks for a confirmation.
5. Click [OK] to delete data or [Cancel] to close the window without deleting data. A confirmatory answer to this question permanently deletes all the data and this action cannot be undone.



The history of deleted records can still be viewed (per patient). Use the checkbox 'also display deleted items' under the tree structure. Deleted records will be displayed as struck through (in the tree structure) and the reason for deletion will be stated (in a separate field, read-only).


## Additional information

For more information about the [Activity logging...] button, see chapter '[Mosos- Base, General Maintenance, ATNA logging](#)'.


## General maintenance; Transfer patient data

If, by accident, a patient has been given two records (with different patient numbers), there is a possibility to transfer all data from the non-desired record to the desired record.

Authorisation level: Administrator.

 Transfer patient data must be done very carefully! Be careful with transferring data so the data won't end up in the wrong file or gets lost.

1. Go to the tab 'Delete data' in Mosos <Base> General Maintenance.
2. Select the patient, using the patient number not to be retained.
3. A notification will appear: This patient is already stored with the preference number 'xxxxxxx'. The data is not up to date.
4. Click [Move content], next to the field 'Data'.

 The button [Move content] is only visible if a patient record with a non-preferred number is selected, while there is also a known record with a preferred number. In all other cases the button is invisible.

5. Click [Move content].
6. A question will appear: Does all data from selected patient needs to be transferred to patient 'xxxxxx' (patient number)?
7. Click [No] to stop and select differently or stop. Click [Yes] to transfer all data and delete the non-preferred record.
8. Then the record to which all data is transferred will show.
9. Check the data in the record retained. See also the additional information below.

### Additional information

- All data is transferred. It is not possible to select just a part of the data. This is due to the fact that there are mutual connections.
- If there are any differences between the non-desired content and the content to preserve (target file), the content will still be transferred. For example: The non-desired file


contains a 'pregnancy 1 file' and the target file contains a 'pregnancy 1 file' as well. The content will be transferred and the target file will contain two 'pregnancy 1 files'. Because the target file content will be displayed, the user can maintain the correct file and remove the non-desired file.

- The file from which all data is removed, will be deleted immediately because:
  - It is certain that the user wants to delete the non-desired file and
  - this way the user will see the transferred content together with the original content in the target file. Any conflicting data is displayed immediately.

## ATNA logging

- [Request logging for all users](#)
- [Request logging for a specific user](#)
- [Request logging for a specific patient](#)

Implemented in Mosos is Audit Trail and Node Authentication (ATNA) . This allows recording to take place for all activities in which privacy-sensitive information is created, viewed, copied, moved, modified or deleted\*.



	This recording is stored for an unlimited period.
---	---

The following activities are logged:

- Starting and stopping a program.
- Logging in.
- Creating a patient record (add new patients to the database).
- Reading, entry, modification, deleting of data (including maintenance).
- Activating or de-activating patient consent for the sharing of data with national databases / external care providers.
- Register and disconnect patients.
- Starting and stopping a CTG recording.
- Modify alarm settings.
- Activate and de-activate STV (if STV is in use).
- Creating, modifying, printing and sending documents.
- Entry and modification of note templates (maintenance).
- Entry and modification of user data (maintenance).
- Use of Mosos - Base - Report generator and Statistics.
- Use of ATNA logging.

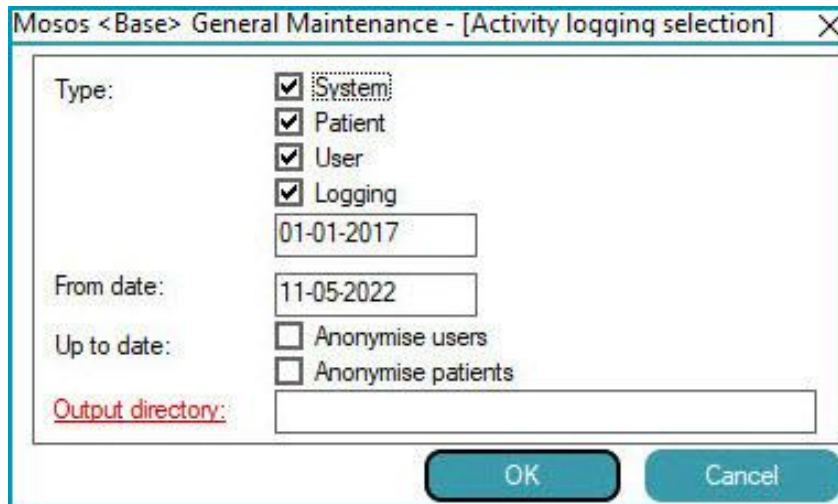
The logging can be collected and performed via Mosos <Base> General Maintenance, at a system level (general activity), at a user level (user activity) and at a patient level.

This logging data can be requested or exported via Mosos <Base> General Maintenance. Export takes place in .CSV format.

	In order to request the logging, you need to log in as administrator with “all rights”.
	The time displayed in the logging is the UTC time. This can differ from the local time and/or the time setting on the workstations.

## Request logging for all users

1. Open Mosos <Base> General Maintenance and log in.
2. Click on [Program] in the menu bar and then on “Retrieve general activity logging...”.
3. The 'Activity logging selection' screen will open.



4. Select one or more check boxes to request logging about a specific component.

### 5. Type

- System: logging about activities relating to the system.
- Patient: logging about activities relating to patients.
- User: logging about activities relating to users.
- Logging: logging about activities relating to this audit logging.

### 6. Date

Enter the “from” and “Up to” date here.

### 7. Anonymise

- Anonymise users: when this option is ticked, no user names will be displayed on the export, only a reference, for example: 'user 3'.
- Anonymise patients: when this option is ticked, no patient names will be displayed on the export, only a reference, for example: 'patient 21'.

### 8. Output directory

Enter the directory where the file needs to be stored here, for example 'C:\Users'.

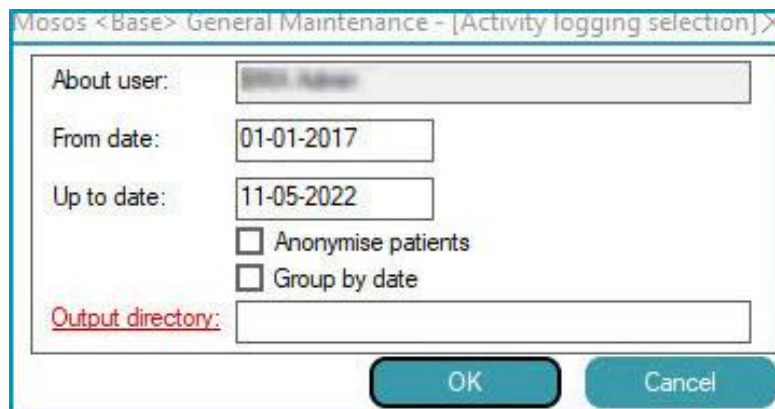
9. Click on [OK] to generate the .CSV file.

## Request logging for a specific user

Under the tab 'Users' , an administrator (with all rights) can request the logging for himself or a specific user.

The administrator will receive a logging of all activities performed by this user (regarding the system and patients). In addition, the logging contains a log line about requesting the Audit logging for this user. If the administrator requests his own logging, then this audit logging activity will be included.

1. Open Mosos <Base> General Maintenance and log in.
2. Select a user from the tab 'Users' .
3. Click on the [User activity log ...] button.
4. The 'Activity logging selection' screen will open.



### 5. *About the user*

The selected user for who the logging was requested.

### 6. *Date*

Enter the "from" and "Up to" date here.

### 7. *Anonymise*

- Anonymise patients: when this option is ticked, no patient names will be displayed on the export, only a reference, for example: 'patient 21'.

### 8. *Group*

'Group by date' provides only an export with the number of events per date, but no detailed information about the event itself.

**9. Output directory**

Enter the directory where the file needs to be stored here, for example 'C:\Users'.

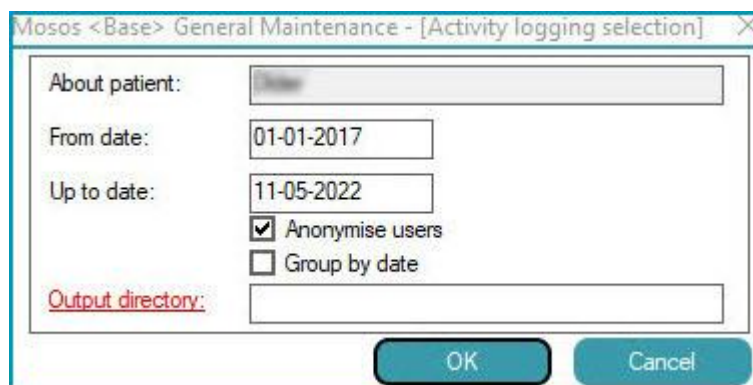
**10. Click on [OK] to generate the CVS.file.**

**Request logging for a specific patient**

Under the tab 'Delete data', an administrator (with all rights) can request the logging for a specific patient.

The administrator will receive a logging of all activities performed in the records of this patient. In addition, the logging contains a log line about requesting the logging for this patient.

1. Open Mosos <Base> General Maintenance and log in.
2. Go to tab 'Delete data'.
3. Click on [Select patient] and select the specific patient.
4. Click on [Activity logging ...].
5. The 'Activity logging selection' screen will open.



**6. About patient**

The selected patient for whom the logging was requested.

**7. Date**

Enter the "from" and "Up to" date here.

**8. Anonymise**

- Anonymise users: when this option is ticked, no user names will be displayed on the export, only a reference, for example: 'user 3'.

**9. Group**

'Group by date' provides only an export with the number of events per date, but no detailed information about the event itself.

**10. Output directory**

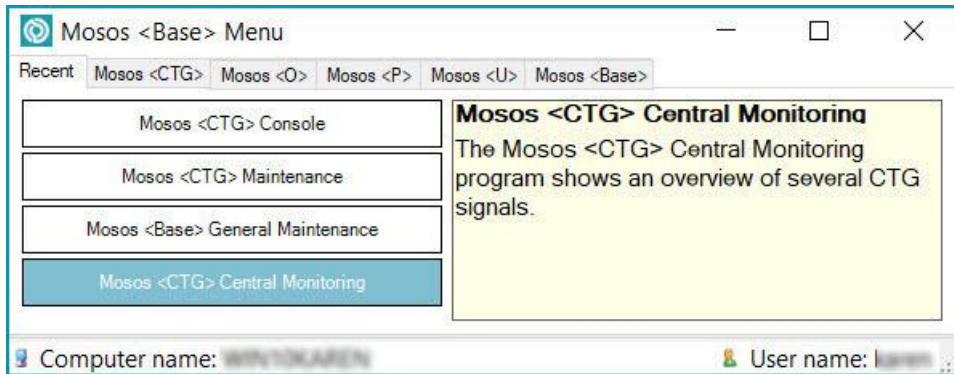
Enter the directory where the file needs to be stored here, for example 'C:\Users'.

**11. Click on [OK] to generate the .CVS file.**

*\* Logging data is a legal obligation, imposed by the government (EU) and applicable to healthcare applications. This makes it possible to trace at all times what has happened to the events/activities within the care application.*

# Start

## Mosos <Base> Menu



The first tab of the Mosos menu contains a number of 'shortcuts' to recently opened programs of the currently logged in user. This is computer independent.

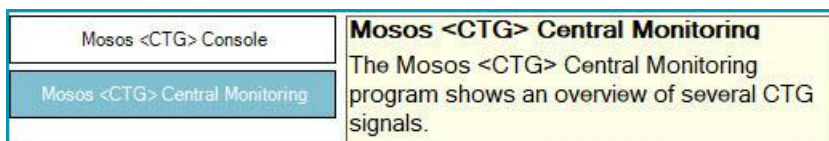
On the following tabs is the Mosos suite, from Mosos - CTG to the various general modules, such as Mosos <Base> General Maintenance. Each tab contains various modules belonging to the main program.

### Functioning

#### Open

By clicking on a button with a module name, the module in question will start.

The user should hover the mouse over the name of the module in order to display information about a module. The label will turn green and the summary information about the module in question will be displayed (if present) in the box on the right.



#### Rights

If the button is greyed out, the user has no rights to start the module.



## Additional information

For detailed information about [Mosos Menu](#) and [Mosos <Base> Menu Management](#), see chapter 'Support'.

## Login and closing

- [Login](#)
- [Login for the first time](#)
- [Change password](#)
- [Lock/unlock input](#)
- [Single Sign On](#)
- [Close](#)

### Login

Click on the [User login] button to open the 'User login' window. Through this window you can obtain access to the input screens of the respective Mosos module.



You can also switch users using the 'User login' window without first closing the program. The window can also be used to lock input possibilities when the current user leaves the computer but does not turn it off.

1. Click on [User login] to open the login window.
2. In the 'Login name' field, enter your assigned individual login name.
3. In the 'Password' field, enter your individual password.
4. Click on [OK].
5. If the input is correct (this is automatically checked), then the user will receive access to the input screen of the respective Mosos module.




- The individual login name is assigned by the Mosos application administrator. This can be a last name or first name. The user can choose an individual password him/herself. See also '[Changing your password](#)'.
- Authorisations are also specified per user. Based on the authorisations, the logged-in user receives access to certain functions (or not).
- It is possible to create a read-only user in Mosos dossiers. Making changes would not be possible. The items in the dossiers are visible and you can print from the dossiers, for example the notes or CTG registrations.
- A login procedure is in place for each program (unless [SSO](#) is on). The login procedure is also a way to protect patient data from illegal review or

modification.


### Login for the first time

1. Open the module or click on [User login] to open the login window.



 Logging in for the first time and changing the one-off password cannot be done in the module 'Mosos <PatientView>'.

2. In the 'Login name' field, enter your assigned individual login name.
3. In the 'Password' field, enter the letters 'pw'. This is a one-time-only password and expires immediately after use.
4. Click on [OK] and the 'Change password' window is opened.
5. Enter a new password and confirm it by reentering it in the field underneath the 'Password' field.



- Complex passwords (default setting): at least one capital letter, one lower case letter, one number and one other symbol. The default number of characters is 6, but this can be modified by the administrator (at least 4). The password is case sensitive.
- If complex passwords are not used, then combinations of numbers and letters are permitted. This password is also case sensitive. The minimum number of characters is 4.
- Always set a password that meets the requirements of a complex password. This password will always be accepted.

6. Click on [OK] to save the new password or click on [Cancel] to close the window without saving the new input


### Change password

Depending on the settings chosen by the Mosos application administrator, users of the Mosos module may or may not be able to change their individual password. Next you will find instructions for changing your individual password without the involvement of the application administrator.

There is one requirement: you must know your old password. If this is not the case, then the


application administrator must become involved.

1. Log in as instructed under '[Log in](#)'.



It is not possible to change the password in the module 'Mosos <PatientView>'. Select one of the other modules.

2. Select the 'Change password' option from the 'Program' menu and open the 'Change password' window.
3. Enter your current password in the 'Password' field.
4. Enter a new password in the 'New password' field. Reenter your new password in the 'Confirm new password' field.




See '[Login for the first time](#)' for the password requirements.

5. Click on [OK] to save the new password or click on [Cancel] to keep your old password settings.

### Lock/unlock input

If the user does not want to log in (for the protection of patient data) but wants to keep the program operational, click on [Cancel]. This will close the 'User login' window and bring you back to the neutral background of the Mosos module.

In order to regain access to the Mosos module, you must go through the login procedure again.




- For Mosos - CTG, this depends on the settings. A setting can also be created (by an administrator) to ensure that the programme closes after logging off.
- If the module is not being used, the user should log out or close the module. If users do not log out, access to the module will remain open and third parties can enter / change / delete data under the name of the user that is logged in at the time.

### Single Sign On

Single Sign On (SSO) is a feature that allows a user to log in only once (into the first Mosos module). At the start of other modules (via Mosos menu) user doesn't need to log in again.

This functionality is enabled by default, but can be turned off (by supplier).

Mosos <CTG> Central Monitoring is only involved when started from Mosos <CTG> Console. Maintenance modules have separate login, whether SSO is enabled or not.




When SSO is enabled, users must strictly observe login / logout procedures (or close modules) to prevent that other users enter/modify/delete data with the their account.

If SSO is enabled: After first login, a message and a 'key' icon appear.



All Mosos modules closed by user? SSO is also closed. The time SSO is active is adjustable in minutes (between '0' and infinity). By default 480 minutes.

If 480 minutes is exceeded, user is still logged in in the modules (which he/she has been logged in to). Opening a new module? Then the user needs to login in SSO.



- There is no single sign off function! Logging out is required for every module! Therefore it is important that user consistently log out to prevent improper use of their account. To reduce the risk of improper use:
  - Lock the pc using the buttons [Windows]+L.
  - Click in one of the modules at [User login] to log out. SSO is deregistered.
  - Click (right mouse button) on the key icon in the task bar and click 'Log out' to deregister SSO.
- Closing a module will not close SSO unless the module is the last one open.
- SSO only works with the first time starting a module (via Mosos menu). See also the following examples.

### SSO off (by default)

Log in and out per module.

### SSO on

#### Example 1

Step 1	User 1 starts (via Mosos menu) module 1.	Login required.
Step 2	User 1 then starts module 2 and module 3 (via Mosos menu).	No login required.
SSO status*	User 1 (in all 3 modules).	

Close	User 1 logs out in each module.	
SSO status*	SSO will close when all modules are closed and the icon will disappear from the taskbar.	

### Example 2

Step 1	User 1 starts (via Mosos menu) module 1.	Login required.
Step 2	User 1 then starts module 2 and module 3 (via Mosos menu).	No login required.
SSO status*	User 1 (in all 3 modules).	
Step 3	User 1 logs out in module 3.	
SSO status*	User 1 (in module 1 and 2).	
Step 4	User 1 wants to start working in module 3 again.	Login required.
SSO status*	SSO only works at the first startup via Mosos menu. Log out? Participating in SSO expires.	

### Example 3

Step 1	User 1 starts (via Mosos menu) module 1.	Login required.
Step 2	User 1 then starts module 2 (via Mosos menu).	No login required.
Step 3	User 1 logs out in both modules.	
SSO status*	SSO will close when all modules are closed and the icon will disappear from the taskbar.	
Step 4	User 1 start module 3 (via Mosos menu).	Login required.
SSO status*	User 1 (in module 3).	


### Example 4 (Multiple users)

Step 1	User 1 starts (via Mosos menu) module 1.	Login required.
Step 2	User 1 then starts module 2 and module 3 (via Mosos menu).	No login required.
Step 3	User 1 logs out in module 1.	
SSO status*	User 1 is logged out in module 1, but still logged in in module 2 and 3.	
Step 4	User 2 logs in to module 1.	Login required.
SSO status*	Because of the fact that the modules 2 and 3 are still open (account	

	user 1), user 2 can work in those modules. User 2 is able to use the account of user 1 to enter / remove / modify data!	
Step 5	User 3 starts module 4 (via Mosos menu).	No login required.
SSO status*	User 3 doesn't need to login. SSO is still active and uses the last login (user 2). User 2 is able to work in all four modules. Module 2/3 are accessible (using the account of user 1), module 1 is open with the account of user 2 and module 4 is started with the user 2 account. This shows the importance of correct login/logout procedure!	

\* Shows the last user who completed a login screen.

## Close



It's important to close the module in a correct way. Never turn off the computer without closing the Mosos modules first and then the Microsoft® Windows® operating system. This to prevent (irreversible) damage to the database.

There are a couple of ways to close a module:

1. At the upper right of the window



2. Click 'Exit', in the menu bar, tab 'Program > Exit'.

## Searching for a patient

In addition to the patient number, a number of other data is used to select / search for patients in the Mosos database. However, this only yields results when the patient has already been entered into the Mosos database.



- Surname
- First name
- Date of birth
- Patient number / NHS number

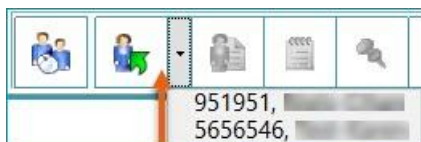
You can only search by one piece of data at a same time. If you enter a second piece of data, the previous field will be automatically cleared. When searching by a piece of data other than the patient number, you may find more than one patient. The full search results are displayed. Select the desired patient manually from the list of patients found.

You may also not find a single patient based on the entered data. If this is the case a message will be displayed. The most common cause is that the patient has not yet been entered into the Mosos database. Search for the patient based on the patient number.

With a HIS connection: The patient's data is sent to the Mosos database via the connection.  
Without a HIS connection: Enter the patient data manually.

### Recently used

Click on [Recently used] in the patient selection screen. You will now see an overview (maximum: 30 lines) of recently selected patients. The most recent selection is at the top of the list. Want to search even faster? Then click on the arrow next to the selection button. A brief overview will be displayed with a maximum of three lines of the most recently selected patients at the respective Mosos workstation.




## Create a record

- [Known patient](#)
- [New patient](#)
- [Patient without official identification](#)

### Known patient


1. Check if the patient is known in the database. Therefore, open the 'Select patient' screen, enter 'Patient number' and click [Search].




 It is also possible to use other patient data (like Surname / Date of birth). With this data several search results are possible.

2. When the patient is known in the database, the data appears. Verify if it is the correct patient! If not, check the patient number. If not correct, use other data (like Surname/Date of birth) to search. Click on [OK].

3. A new record can be created or a current record can be opened.

 The current pregnancy does not always succeed to the number of records created in the database. So check the number of the pregnancy carefully. The number includes abortions, Molar pregnancy etc.

4. Click [New record] and go to step 5 of 'New patient' below.

 Data on previous pregnancies are automatically entered in the new record, based on what is known in the Mosos database.

### New patient

1. Check if the patient is known in the database. Therefore, open the 'Select patient' screen, enter 'Patient number' and click [Search].



2. When the patient isn't known (in the database) a question will appear: "No patient found with search field. Do you want to enter a new patient?" Click [Yes].



If there is a HIS connection, the patient must be known in the HIS system. If not, this must be arranged first. So data like name/address/insurance can be automatically transferred from the HIS system to the Mosos database.

3. The patient data screen opens.
4. Click [OK] and then [New record] or, depending on the module, click [New].
5. Enter data. The screen content depends on the program the user is working in. There are differences between the home screens in the different modules. They are described in the relevant module as necessary.

#### Tips (if applicable)

- Make sure the current pregnancy number is correct. Ask for any miscarriage / abortion etc. A wrong entry can only be edited by an administrator!
  - Determination based on:
    - LMP; First day last menstruation period. The program will automatically calculate the EDD.
    - Ultrasound (elsewhere); When patient had an ultrasound examination elsewhere, choose this option and manually enter the EDD.
    - Ovulation; Day of ovulation. The program will automatically calculate the EDD.
    - Self; When the EDD is known (for example after ultrasound) choose this option and manually enter the EDD.
  - When it's not possible to determinate the EDD (for example, patient is waiting on an ultrasound examination), choose 'Self' and enter an EDD in line with clinical assessment. This way the user can create/open the file and start working in it. Use the memorandum to enter a note that the EDD yet needs to be adjusted.
6. Click on [ OK ].
  7. Click [Close] and the record will open.



To change the gestational age, see '[Change term](#)'. When the HIS connection is temporarily unavailable, use TEMP numbers. See chapter '[TEMP numbers](#)'.

#### Insurance

*This function is not available/necessary in all countries.*

Patient insurance data may be entered via a link. This is the same link that also enters the name and address details of the patient.

- Type of insurance
- Insurance company
- Policy number
- Startdate
- End date

For customers without a link, it is still possible to enter the data manually.

### Patient without official identification

If a patient is not entered in the HIS, then the patient generally also cannot be entered in Mosos. This is sometimes the case for patients without a valid identity document and/or fixed abode, for example a woman who is living in the country illegally. Each hospital has its own protocol for dealing with these cases.

In the case of an installed and functional HIS link, it is impossible to add patient records manually to the database. TEMP numbers can only be used if the link is not working, this is temporary (for example for a day or part of a day). In addition, TEMP numbers must be replaced (mandatory) with a HIS number once the link is available again.

There is one other possibility, which is the only option in Mosos: make and print [anonymous CTG recordings](#). It is possible to add in the assessment text which patient belongs to the recording.

For all other functions in Mosos, a patient record based on a unique identification must be created. This identification is the same for all patients in the Mosos database: HIS number.

An alternative solution is to reserve a set of special patient numbers (in the HIS system) for these situations. Comparable to, for example, the numbers used for trial patients.


## Open a record

- [Open a record](#)
- [Close a record](#)
- [Summary](#)

### Open a record

1. Check if the patient is known in the database. Therefore, open the 'Select patient' screen, enter 'Patient number' and click [Search].



 It is also possible to use other patient data (like Surname / Date of birth). With this data several search results are possible.

2. If the patient is unknown in the database, follow the steps in chapter '[Start, Create a record](#)'.
3. When the patient is known in the database, the data appears. Verify if it is the correct patient! If not, check the patient number. If not correct, use other data (like Surname / Date of birth) to search.
4. Found the right patient? Click [OK].
5. A list of all records created for this patient appears. The current file is provided at the bottom, marked in blue and recognisable by the brackets around the gestational age. Click [Open record].
6. If there is not a current record or all records have been closed, a question appears whether a new record should be created. See '[Create a record](#)' for more information.
7. When a file has been opened, it is possible to open the file selection screen using the [Select record] button and select another file (if possible) there.



8. By then clicking on the [Record] button (or double clicking on the relevant file in the overview), the selected file will open.



## Close a record

Pregnancy records are automatically closed at a certain date, under certain conditions. These conditions are:

- 90 days after the date 'End pregnancy' is entered. This date can be entered in Mosos <P> (date of birth child), Mosos <CTG> (date of birth child) or Mosos <O> (pregnancy outcome) or
- 90 days after the EDD has expired.

Only an administrator can grant access to the relevant file after that time.

## Summary

On the screen where a pregnancy record can be selected (in Mosos <O> and Mosos <P>), the button [Summary] is available. With this button a summary of data can be displayed. This functionality is also available through the menu bar.



The summary includes only details of the selected pregnancy and the module in which the summary is opened.

## Opening a record

1. Search and open the record as described above.
2. In the screen 'Available pregnancy records' select the relevant pregnancy.
3. Click the [Summary] button to display the summary.

## Open record

1. Go to the menu bar and click 'Data'.
2. Click 'Summary'.
3. When a summary of a previous pregnancy needs to be displayed, first click [Select record]. Select the concerning record and click [Summary].



## Data entry and modifying data

- General
- Patient data (Mosos CTG in combination with Mosos P tabs)
  - Patient data (Mosos CTG without Mosos P tabs)
- Pregnancy info data
- Select child button
- Record check
- Extra fields

### General

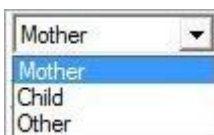
The administrator sets up which modules a user has access to and the user's options. For example, a user can / can't add items in a list. It is also possible to give a user only the right to read. In that case files can only be read (and print) , changing or entering data is not possible.

### Menu bar

In addition to the tool bar, the program can also be operated (partially) via the menu bar. Available options are included in a pop-up menu from the bar. Open a pop-up menu by clicking on it and selecting the desired option. Options can be included in the menu bar that are not visible in the tool bar.

### Drop-down list

Sometimes a selection list is available for the field processing. The list can be opened by clicking on the arrow to the right. Select the desired description by clicking on the description.



Therefore, manually entered items in these types of fields do not appear in the selection list, but are added as a one-off event.


### Modification button

When the user has the correct authorisation, in some places it is possible to add items to a drop-down list. To do so, click on the modification button while the field is empty. A screen 'Add' appears and a new description can be entered.



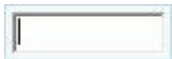
Depending on the module sometimes more additions are shown. For example 'For single use'.

With the modification button it is also possible (if authorisation is given) to change descriptions. Select an item in the drop-down list, click the modification button and change the description.

	Making modifications has a number of important consequences: For an explanation and points of special interest, see chapter ' <a href="#">Mosos - Base, General Maintenance, Selection lists, Modify</a> '.
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### Free text

Click in the empty box to select and enter text.



### Numerical data fields

Numerical fields can be recognised by the designation of a unit with a field:

cm = centimeter

bpm = beats per minute

gram = gram

cf = conform

p = percentile

cm/s = centimeters per second

### Mandatory fields

Modules can contain one or more fields that must be completed to enable further storage of the data. Mandatory fields are marked in red. In some cases, mandatory fields can be skipped and completed at a later stage. This is the case in Mosos <P>. This is stated clearly by means of a help text, which can be opened using the right mouse button.

It is also possible for a button on the button bar, a tab sheet title or the child selection button to have a red border. In that case, mandatory data have not yet been completed for the components in question.

### Patient data (Mosos CTG in combination with Mosos P tabs)

Using the [Patient data] button in the tool bar, the patient data can be displayed at any time and changed if necessary. This function offers the possibility of revising the data of the selected patient.




If a HIS connection is used, the patient's name and address data available in the HIS are automatically displayed.

Entering data in the fields is done in the same manner as registering a new patient. By clicking on [OK], the screen is closed and the entered patient data saved. Then the previous screen reappears that the user had open before the [Patient data] button was clicked.

By clicking on [Cancel], the screen is closed without saving the entered changes. The user returns to the previous screen that was open before the [Patient data] button was clicked.

The content of the 'Patient number' field, at least when linked to HIS, cannot be modified in principle.




- The 'Patient data' window contains mandatory fields. Until data are entered in the mandatory fields, the [Patient data] button in the tool bar has a red rim.
- If the client has Mosos CTG and Mosos <P>, the following applies: By clicking on the [Patient data] button (in Mosos <CTG> Console), the Mosos <P> tabs open! By clicking again on the [Patient data] button, the 'Patient data' screen opens.

### Patient data (Mosos CTG without Mosos P tabs)

Using the [Patient data] button in the tool bar, the patient data can be displayed at any time and changed if necessary.



Click at [Patient data] -> Modify data and click [OK] to store. Click [Cancel] will close the screen without saving changes.



- The current pregnancy duration (term) cannot be manually modified directly but is automatically recalculated based on the entered full-term date and the current calendar date. It is then modified.
- The number of the current pregnancy must be unique. If a number is entered that has already been entered in the Mosos database, a message to that effect is displayed on the screen. Enter the correct number. Or, if necessary, correct the number of the previous pregnancy. Then modify the number of the current pregnancy.
- If data have already been entered in more than one child record, the number of children can no longer be restored. In this case, the incorrectly created


child records can still be deleted through Mosos <Base> General Administration (authorisation is required).

### Pregnancy info data

By clicking on [Pregnancy information], the summary of the pregnancy information opens. Click on this button to view the information and possibly revise it if, for example, a multiple pregnancy has been confirmed.



If there aren't any registrations or if it concerns a new pregnancy, the 'Change pregnancy info' screen will open directly after entering the EDD.

 Customers who use Mosos <CTG> Console and do not have P tabs can change the parity using the [Patient data] button.

### Select child button


The number of fetuses can be entered on the tab 'Current pregnancy > Information on pregnancy'. To enter data correctly, automatically the program creates one record for each fetus.

To change records during reading or editing / entering data, click the button [Select child].

This button can be found on the upper right corner and is only accessible if it's possible to enter data for each fetus individually.



Initially, the children will be named 'Child 1', 'Child 2' etc. This is automatically replaced by their first name, as soon as the name is entered in to the programme. When a child is deceased, this will be made visible by a '+' sign in front of the concerning child.

 A red lining around the child selection button characterises the fact that the record still contains empty mandatory data fields.

### Record check

This button is only available in Mosos <P>. During entering data the software checks -as good as possible - if the data does not conflict with each other. The checking can be done at

2 different levels:

Bu tuş yalnızca Mosos <P>içinde kullanılır! Veri girişi sırasında - mümkün olduğunca - girilen verilerin birbiriyle çakışıp çakışmadığı kontrol edilir. Bu tuşun [Dosyayı kontrol et] iki modu vardır:

- Button pressed; Stringent .
- Button not pressed: Less stringent.



### Stringent control

After opening a record, the button [Check record] is pressed by default. If an unlikely combination of data is entered, a message/warning automatically appears on screen. If the message is compelling, it is necessary to adjust the entered data to make it possible to save the data. If a message appears:

- Click [OK] to close the message and to return to the data field. Modify the data. Or
- remove the entered data en check if data entered elsewhere is correct. If necessary, modify the data elsewhere.

It may occur that modifying data elsewhere is not possible due to the stringent level of control and returning messages. For example, due to a displayed message it is not possible to open another tab. If this problem occurs, switch - temporarily - to the less stringent level of control.

### Less stringent control

Click at the button {Check record}. That way it is no longer pressed. Modifying data is made easier this way; messages/warning no longer have a compelling nature. If a message/warning appears, it is possible to close it (by clicking at [OK]) and return to record. There is no need to empty the field the user entered data before. The user can open another tab elsewhere to enter necessary modifications.

The program will automatically return to the stringent level of control:

- When closing the record.
- When switching to the function 'Letters and documents'.
- When switching to another child (using the button [Select child]).
- When opening / closing a separate screen like the EDD history screen.

### Close

If during closing a record, an message/warning appears, click [OK] to return to the record and make the necessary modification.

When closing a record during less stringent control, the message is displayed as a question.

If that is the case, the user can decide to close the record without saving the incorrect entry.



The 'Check record' function tries to prevent the user from closing a record with saving conflicting data. If necessary modifications are not made, some data will not be saved! Meaning that incorrect data automatically will be removed or these fields will be filled with the original entry.

### Extra fields

On occasion it is possible for the user to add an additional free text field. The accessibility of this button varies by program / tab. If it is not possible to create an additional field, the button is not accessible.



The content of an additional field will not be placed in the output (like correspondence etc.). To see the content the user must click on the button [Additional field] when it is accessible.

## Memorandum

In the Memorandum screen users can enter information pertaining to the pregnancy, which must be visible with one press of the button and, if desired, can be displayed by default when opening the record. The screen (as well as the function) can be compared to a Post-it® note.

### Create

1. Click on [Create memorandum].




2. Entering and modifying text is done with the keyboard, with the assistance of the clipboard, if necessary. In some Mosos modules it is possible to use the 'Edit' option in the menu bar of the Memorandum screen to display the text in bold, italics and/or underlined.
3. Enter the information and click on [Save]. Click on [Cancel] to close the window without saving the information.

### Review / Modify

1. Click on [View/Change memorandum].




2. Review / modify the information or add new information.
3. Click on [Save] or click on [Cancel] to close the window without saving the information.

	<ul style="list-style-type: none"> <li>• If the memorandum already has content, then the memorandum is opened automatically when the patient is linked or a file is opened.</li> <li>• When using several Mosos modules, the content of the memorandum is automatically exchanged with the other programs of the Mosos Suite. Thus, if a memorandum is entered from the Mosos &lt;CTG&gt; program, for example then the content can also be viewed in the Mosos &lt;U&gt;, Mosos &lt;O&gt; and/or Mosos &lt;P&gt; program.</li> </ul>
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## TEMP numbers

- [Creating a TEMP number](#)
- [Replace a TEMP number](#)
- [When replacing doesn't work](#)
- [Additional information](#)

In the event that connecting with the HIS fails, it is possible to manually enter patients who have not yet been entered into the Mosos database with a temporary patient number (TEMP). Please note that it is important to double-check that the patient truly has not yet been entered into the Mosos database.

	Patients who were already known in the Mosos database can be selected and may not be assigned a temporary number. Namely, creation of two or more records for the same patient must be avoided. That is why it is important, if the connection fails, to also select the patient by another search field, such as the name or date of birth. This way you can check whether the patient truly does not yet exist in the Mosos database.
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### Creating a TEMP number

1. In the selection screen, type TEMP at the location of the patient number followed by a three-digit number (e.g. 'TEMP001') and click on the search button. For example: 'TEMP001'.



2. You can then select one of several options. Click on [Yes] if you want to enter new patient data.
3. If the selected TEMP number is already in use, select a different number.
4. Enter at least the mandatory data and click on [OK] to save the data.



These (temporary) TEMP numbers must be manually replaced by the patients HIS number directly after the connection has been restored.

### Replace a TEMP number

1. In the selection screen, type TEMP at the location of the patient number.
2. Click on the search button and select the respective record.

3. Go to the 'Patient data' screen by pressing [Patient data].



4. Replace the TEMP number by the HIS number and click on [OK].

5. A brief message is displayed: 'Retrieving patient data from the HIS...'. If the connection works and the entered number is known in the HIS, then the associated identification data are incorporated. The temporary number is cancelled automatically.

If the communication server is not (yet) working, a message to that effect is displayed. The temporary number can then not (yet) be changed. It is possible to enter data or create a CTG recording under the temporary number. Consult the technical application administration or the automation department for more information about the duration of the outage.



As long as there is still a TEMP number in the Mosos database, no new patient data can be incorporated from the HIS.

### When replacing doesn't work

In rare cases the temporary number cannot be replaced by the patients HIS number. This is announced by a message. In almost all cases this is due to the fact that the temporary number was wrongfully created because the patient already existed in the Mosos database with a HIS number.

The two records cannot be combined. To get rid of the temporary number, one of the two records must be deleted entirely. Which of the two depends on the type and the quantity of pregnancy data that are already saved in the records.

You can check the content using the Mosos <Base> General Administration / Delete Data programme. You can also use this programme to delete records (only if you have the required authorisation).

In general the record with the least data should be deleted. Always first make a hard copy of the content (printout on paper) and move any CTG recordings to the record that is kept. See: '[Incorrect connection](#)' and consult the functional application administrator.

### Additional information

- Working with TEMP numbers is only applicable if a connection to the HIS exists.

- Normally, you can select a patient based on the number with which the patient is known in the hospital information system (HIS). If this number is not in the Mosos database, the system will automatically search in the HIS.
- With a connection to the HIS, some data such as patient name and date of birth are then automatically incorporated by the Mosos database.
- The connection of Mosos with the HIS is made possible, among other things, by the Mosos <CS> programme: the Mosos communication server. If discontinuity occurs in the availability of the HIS, e.g. due to a failure of Mosos <CS>, then no new patient data can be incorporated (temporarily). For example, this means that no identification data of new patients can be linked to a CTG recording. A procedure has been developed with which the patient's identification data can nevertheless be incorporated into the Mosos database based on a temporary number in the event of a communication server failure.
- As a rule, the hospital's Information Technology department handles operation of the Mosos <CS> and provides information about the duration of the outage, among other things. A message appears when the communication server fails: Warning. The communication server is not working. Use TEMP numbers for new patients to be added.
- It is advisable to first contact the System administrator or the IT department in order to make a message about the communication server failure known. The outage may be short in duration.

## Term

- [First determination \(Mosos <P> installed\)](#)
  - [Mosos <P> not installed](#)
- [Modify EDD \(Mosos <P> installed\)](#)
  - [Mosos <P> not installed](#)
- [EDD history](#)

### First determination (Mosos <P> installed)

While creating a new pregnancy record / introduction of a new pregnancy (including for example an ultrasound application), the screen to determine the EDD will appear.

#### *EDD determined by*

Displayed automatically and can not be modified.

#### *Determination date*

Automatically filled with today's date. Modifiable.

#### *Current pregnancy*

Mandatory field.



Do not assume that the number displayed (Gravida) is correct!. Ask for all pregnancies, including termination of pregnancy, miscarriages etc. Once this number is saved, it cannot be changed by the user.

Determination based on: Drop-down list contains 'LMP', 'Ultrasound (elsewhere)', 'Ovulation' and 'Self'.


- *LMP*: Last menstrual period. Calculation is based on data in the fields: Last menstrual period (first day, DD-MM-YY), Certainty LMP (sure/unsure), Number of cycle days and Regularity cycle (regular/irregular). If a check mark is placed in front of 'use in calculation', the number of cycle days is used into calculation as well. The EDD will be placed automatically in the field 'EDD'. The current term is shown in 'at term'.
- *Ultrasound (elsewhere)*: Ultrasound examination from outside the hospital.
- *Ovulation*: 'Ovulation' date forms the basis for calculation.
- *Self*: User can enter data manually into 'at term' or 'EDD'.



The calculation methods based on 'LMP' and 'Ovulation' can only be used once within the same pregnancy file.

### First determination (Mosos <P> not installed)

While creating a new pregnancy file / introduction of a new pregnancy (including for example an ultrasound application), the screen to enter the EDD will appear. Enter data and click [OK].

	<p>Do not assume that the number displayed (Gravida) is correct!. Ask for all pregnancies, including termination of pregnancy, miscarriages etc. Once this number is saved, it cannot be changed by the user.</p>
---	---

### Modify EDD (Mosos <P> installed)


1. Click [Estimated delivery date].



2. This will open the screen 'Add history'.

3. Click [New] to open the screen 'Add estimate date of delivery'.

4. Go to 'Determination based on' and select 'self'. Enter a new EDD.

	<ul style="list-style-type: none"> <li>• The calculation methods based on 'LMP' and 'Ovulation' can only be used once within the same pregnancy file.</li> <li>• EDD based on an ultrasound examination needs to be modified in the ultrasound examination. It can't be changed in this screen.</li> </ul>
---	--

5. Click [OK].

6. A question appears: Do you want the current EDD (xx-xx-xxxx, based on 'xx') to be replaced by the newly determined EDD (xx-xx-xxxx, based on 'xx')?

7. Click [Yes].

8. Click [Close].

### Mosos <P> not installed?

Click [Patient data], enter a new term and click [OK].



Within one file it is possible to determine an EDD several times and build an EDD history. Once an EDD has been calculated and stored, click the button or select 'EDD' from the menu bar ('Data' -> 'EDD'.) to open the EDD history screen.



#### *Date*

Displays the date on which the determination was made. Based on an ultrasound examination, this date is equal to the date on which the examination was conducted.

#### *(Name) EDD determined by*

Contains name / function of the person who added the EDD data. When the determination is based on an ultrasound examination (entered in Mosos <U>) these fields contain name/function of the person who entered the ultrasound data in Mosos <U>.

#### *Term*

Shows the term on the day the EDD calculation was determined.

#### *Current*

Give the gestational age that currently applies for the ADD calculation in the relevant line.

#### *[New]*

Click on this button to open the screen 'Add estimate date of delivery' and register/determine a new EDD.



If there are multiple determinations, one determination must be designated as a starting point using the option buttons. The term calculated from the designated EDD is then displayed in the patient information bar. If the EDD is not certain, a question mark is placed next to this.

# Mosos <Base> Note definitions


## Maintenance; Note definitions

- [Start up and screen content](#)
- [New note definition](#)
- [Example of completion “Template” and “Fields”](#)
  - [Defintion of the first field](#)
  - [Define second and following fields](#)
- [View new template](#)

Mosos <Base> Note definitions relates to the function 'pregnancy report notes', part of the programs Mosos <CTG> Console, Mosos <P> en Mosos <O>. With this function it is possible to enter (progress) notes.

So-called note definitions (i.e. templates) are supplied in order to simplify the entry of notes. A number of note definitions are implemented as a standard feature by the supplier. These can be (partially) modified.

It is also possible to define new note definitions yourself.

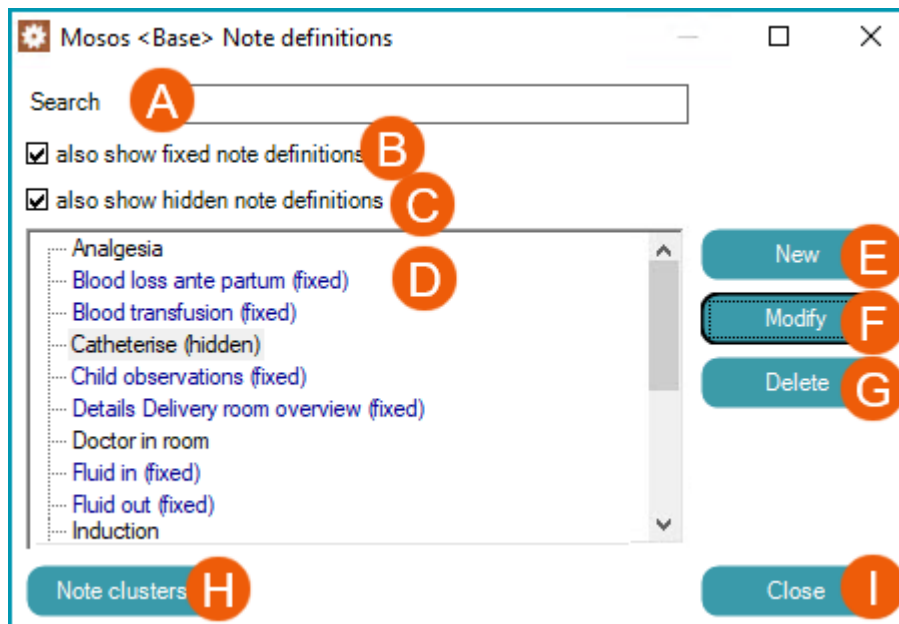


- Before making a new template: Write down in advance what information/data to be entered into the new template. Determine which are required, free text boxes, drop down lists or check boxes. Creating a template is made easier if the structure of the template has been predetermined. It is possible to edit a new template after it is created, but to insert new items are not possible.
- Authorisation: This program can only be opened by one administrator at a time and it must be installed (by the IT department) on an approved computer.

### Start up and screen content

1. Start Mosos Menu.
2. Click on the tab 'Mosos - Base.
3. Click on 'Mosos <Base> Note definitions'.
4. Login. The required authorisation level is 'Administrator' (Mosos <CTG>, <P> or <O>).

*Example*



- A.** Search field; Start typing to search for a note definition. The result is displayed in the summary field (D). The summary field always opens with the note definitions created by the client.
- B.** The fixed note definitions have been created by the supplier. These cannot be removed. Place a tick to display these in the summary field. The fixed lists can be recognised by the term “fixed” in brackets after the name of the template.
- C.** Hidden note definitions are not visible in areas of the software where a note can be entered. Place a tick to display these in the summary field. The hidden lists can be recognised by the term “hidden” in brackets after the name of the template.
- D.** The summary field of the available note definitions. The content depends on the search term (A) and filter settings (B+C) used.
- E.** The [new] button can be used to create a new note definition.
- F.** Click on [Modify] to amend an existing note definition. For more information about the changes to a note definition, refer to chapter “[Maintenance; Modify note definitions](#)”.
- G.** Do you want to delete a note definition? Select the note definition and click on [Delete]. Fixed note definitions cannot be deleted. For more information about deleting a note definition, refer to Chapter “[Maintenance; Modify/delete note definitions](#)”.
- H.** A note cluster supports the entry of several notes simultaneously. Click on the button [Note clusters] to go to the maintenance.  
For more information, see the manual, chapter “[Mosos - Base, Note definitions, Maintenance Cluster notes](#)”.
- I.** Click on the [Close] button to close the entire program.

## New note definition

- 1.** Start Mosos <Base> Note definitions as described above in the section “[Start up and screen content](#)”.

- Click on the [New] button to open the screen in which the new note definition will be created.

The screenshot shows a 'New note definition' window with the following fields and options:

- Name:** A text input field.
- hidden:**
- Concerns:**  mother,  child,  other,  CTG
- Type of note:**  medical,  midwifery
- Partogram group:** A dropdown menu with 'n/a' selected.
- Marking in Course:** A dropdown menu with 'no' selected.
- Template:** A text input field containing '#'. A note next to it says '# indicates the location of the field sequence'.
- Fields:** A large empty text area for defining fields. To its right are buttons: Up, Down, New (highlighted in teal), Modify, and Delete.
- Template component:** A text input field containing '#'. A note next to it says '# indicates the location of the field value'.
- hide label of selected field in template if field is empty:**
- Buttons:** 'Everywhere' and 'Nowhere' buttons.
- Combined (template):** A text input field.
- hide all optional components in the example provided above:**
- Bottom Buttons:** 'OK' and 'Cancel' buttons.

- Enter the desired name in the “Name” field.
- Place a tick before “hidden” if the note definition should not be visible to users. This can be useful, for example, when creating the new note definition or when a note definition is no longer used.
- Concerns; Place a check mark before Mother, Child, Other and/or CTG.



When only the ‘CTG’ option is checked, the note is only visible when reviewing a CTG recording. To find the note, use the functions '[Review/print CTG](#)' or '[Overview of unreviewed CTGs](#)'.

- Type of note (if necessary); Tick the individuals who will use the notification. Medical and/or Midwifery. This option is not visible when no distinction is made between medical and midwifery notes.
- Partogram group; If the note must be shown in Partogram also, choose the group it

belongs to: Stages of birth, Medication or Other. The default setting for this option is “not applicable”.

8. Marking in Course; If you want to assign a marking colour to a template, then this can be selected here. If the user then creates the note in question, it will automatically be assigned the selected marking colour.
9. Code; The client can add a code here. This code is also present in any reports and this code can be used to search for the corresponding note definition in the start-up screen (of Mosos <Base> Note definitions).
10. Template; The presentation of the note is determined in this field. Presentation refers to: the layout used to record a note that is entered in the contents of the notes report.



A template must contain at least 1 field.

11. Fields; The individual components from which the template is constructed. For example, a block of text or a drop-down list.

Use the [new] button to open the screen in which a new field can be created.

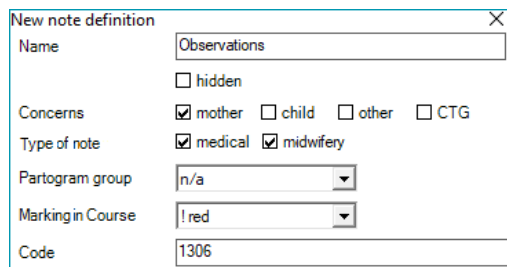
12. The [section below](#) uses an example to explain the completion of the “Template” and “Fields” sections. First perform the steps in this section.
13. Have you finished defining the fields? Then continue with the following steps.
14. Selecting a field under “Fields” allows you to edit the options under that field. Refer to section “Defining first field” steps 18 through 21 for more information about “Template component”, “Hide label”, “Combined (example)” and “Hide optional components”.
15. **Other buttons**
  - [Modify]; Select a field and click on [Modify] to open and modify an existing field.
  - [Delete]; Select a field and click on this button to delete the field from the template.
  - [Move up/down]; Select a field and use these buttons to change the order.
  - [Everywhere]; This button can be used to place brackets around several labels in 1 go (which indicates that a label is hidden if the field is empty).
  - [Nowhere]; This button can be used to remove brackets in 1 go from several labels simultaneously.
16. Save the note definition by clicking on [OK]. It is recommended that you check the note definition. Refer to the section “[View new template](#)” at the end of this chapter.

## Example of completion “Template” and “Fields”

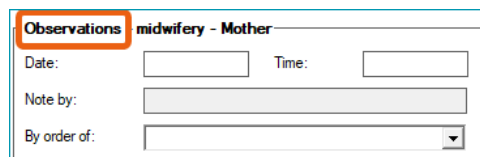
Defining is done field by field. Using an example of ‘Observations’ below, filling in of the Template field is clarified. The relevant definitions are recorded in the other fields. For example, the following two fields will be defined: Pulse and Temp(erature).

### Defintion of the first field


1. First perform steps 1 through 9 from the section “[New note definition](#)”. Complete the fields as shown in the example below.



2. Enter the desired note name under “Name”. In this example, the name is “Observations”. In the following example, you will see where this name will appear in the note template.



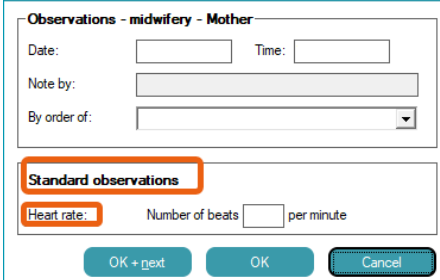
3. Enter a hash (#) in the “Template” field. This hash indicates where the field series will appear.
4. Click on the [New] button after “Fields” to create the corresponding entry field.
5. A complete field can now be created in the screen “New note field”. Sections will/will not be accessible, depending on the choices that are made here.




A template must contain at least 1 field.

6. The type of field is selected under “Field type”. In this example, the type is “numeric”.
7. Header (start new group); If desired, a name can be entered here that will appear above a group of fields. In this example, the name is “Standard observations”.

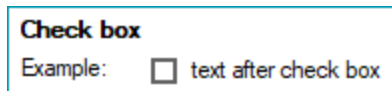
In the following example, you will see where this text will appear in the note template.



8. Name; Enter the desired name for the field here. In this example, the name is “Heart rate”. In the following example, you will see where this text will appear in the note template.
9. Code; The client can add a code here. This code is also present in any reports and this code can be used to search for the corresponding note definition in the start-up screen (of Mosos <Base> Note definitions).
10. Length; Enter the (maximum) number of spaces for input. In the example: 3.




11. Decimals; Available if the field type is defined as 'Numeric'. If desired, specify how many decimals can be entered.
12. Minimum/Maximum; Available if the field type is defined as 'Numeric'. Is used to indicate a range, for example: from 0 up to 220. Meaning users can only enter a value between 0-220.
13. Prefix; Available if the field has been defined as 'free text' or 'numerical'. If desired, enter a prefix (extra addition to the field). Add an extra space after the prefix. This improves the readability. In the example here “Number of beats ”. Refer to the sample image in Step 10.
14. Suffix; Available if the field has been defined as 'free text' or 'numerical'. Add a suffix if desired (extra addition after the field). Add an extra space **before** the prefix. This improves the readability. In the example here “per minute”.
15. Checkbox text; Available if the field is defined as a “check box”. Text can be added here, to be displayed after the entry field.



16. Adopt value from previous note as default; If a tick has been placed here, then the final user will automatically receive a suggestion of the previously entered description when completing the template.

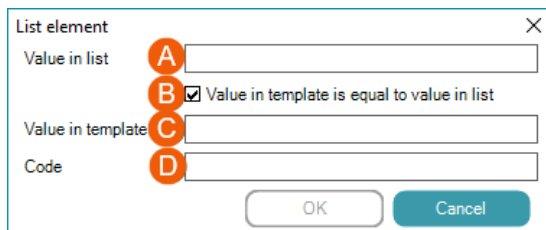
*Example*

A user enters a value in the note, for example 'Vaginal examination, field 'Membranes', absent. The following 'Vaginal examination' note is opened and when the user clicks in the field 'Membranes' or opens the drop down list, 'absent' will be presented. It's possible to adjust manually.

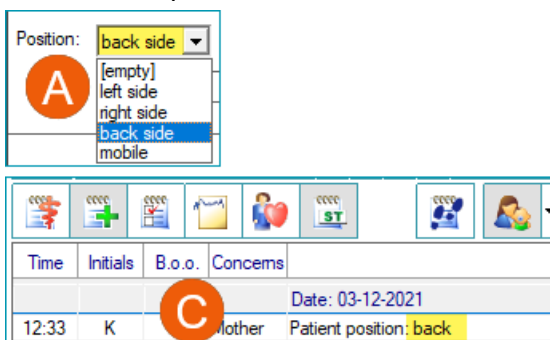


'Use previous value' only applies to individual records/patients. Making the same note in another record, first a value must be entered manually.

17. List of elements; Available if the field is defined as a “list+text” of “fixed list”. The components that make up a drop-down list are entered here. Click on [New] to add a section.



- A. Value in list; Enter the text here as it should be displayed in the drop-down list.
- B. Value in template is equal to value in list; If a tick is present here, then the entered value in the list is copied to the field “Value in template”. Remove the tick if this is not required.
- C. Value in template; Enter the text here as it should be displayed in the note.



Time	Initials	B.o.o.	Concerns
12:33	K	Mother	Patient position: back

- D. Code; The client can add a code here. This code is also present in any reports and this code can be used to search for the corresponding note definition in the start-up screen (of Mosos <Base> Note definitions).

Click on [OK] to save the element and create all required elements in the same manner. The order in which they are displayed can be changed in the summary of all list elements, by using the [Up] and [Down] button. The elements can also be modified here or deleted.

- 18. Template component; Concerns the display and position in the notes overview. In this example, the “HR: #”. Where “HR” is the abbreviation for Heart Rate. The colon improves readability and the # denotes the position of the field value.
- 19. Hide label of selected field in template if field is empty; If no tick is present, then the label is visible (A) in the note. If a tick is present, then the label will not be displayed (B).

Hide label of selected field in template if field is empty. If no tick is present, then the label is visible (A) in the note. If a tick is present, then the label will not be displayed (B).

Time	Initials	B.o.o.	Concerns
12:53	K	Mother	HR: <span style="color: red;">A</span>
12:54	K	Mother	HR: <span style="color: red;">B</span>

Template component [HR: #] # indicates the location of the field value

B  hide label of selected field in template if field is empty

Combined (template) [HR: #]

- 20. Combined (template); Provides an example of what this section of the note will look like in the notes overview.

- 21. Hide all optional components in the example provided above; If labels of empty fields are hidden (step 19), a tick can be selected to hide these in the template too. The template provides the option without tick (A) and with tick (B).

Template component [HR: #] # indicates the location of the field value

hide label of selected field in template if field is empty

Combined (template) A [HR: #]

hide all optional components in the example provided above

Template component [HR: #] # indicates the location of the field value

hide label of selected field in template if field is empty

Combined (template) B [HR: #]

hide all optional components in the example provided above

- 22. Click on [OK] to save this field.

*Result:*

Name	Observations	
	<input type="checkbox"/> hidden	
Concerns	<input checked="" type="checkbox"/> mother <input type="checkbox"/> child <input type="checkbox"/> other <input type="checkbox"/> CTG	
Type of note	<input checked="" type="checkbox"/> medical <input checked="" type="checkbox"/> midwifery	
Partogram group	n/a	
Marking in Course	! red	
Code	1306	
Template	#	*# indicates the location of the field sequence
Fields	Heart rate - text	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="New"/> <input type="button" value="Modify"/> <input type="button" value="Delete"/>
Template component	HR: #	*# indicates the location of the field value
	<input type="checkbox"/> hide label of selected field in template if field is empty	<input type="button" value="Everywhere"/> <input type="button" value="Nowhere"/>
Combined (template)	HR: #	
	<input type="checkbox"/> hide all optional components in the example provided above	<input type="button" value="OK"/> <input type="button" value="Cancel"/>

**23.** Does only 1 field need to be defined? Continue with [step 13](#) of the section “New note definition”. Do more fields need to be defined? Then continue with the following steps.

### Define second and following fields

1. Click on the [New] button after “Fields”.
2. Enter the required data. In this example, the required data are:  
Field type > numeric, Field name > Temperature, Length > 4 (incl. comma), Decimals > 1, Minimum/Maximum > 35-42 and Suffix > space+C (for Celsius).



The data listed here are solely used to support the explanation. The fields/data that an administrator does/does not need to enter when creating a new field depend on the field type that is selected and the desired result. Also refer to “[Defining first field](#)” for more information about fields to be completed.

3. Template component; Concerns the display and position in the notes overview. In this example we use “, Temp: #”. The comma is inserted if this is not the first field. Temp is the abbreviation for Temperature. The colon improves readability and the # denotes the position of the field value.
4. In this example, the 2nd field will look as follows:

Template component	. Temp: #
	<input type="checkbox"/> hide label of selected field in template if field is empty
Combined (template)	HR: #, Temp: #

- Click on [OK] to save this field.

**Result:**

Name	Observations			
	<input type="checkbox"/> hidden			
Concerns	<input checked="" type="checkbox"/> mother	<input type="checkbox"/> child	<input type="checkbox"/> other	<input type="checkbox"/> CTG
Type of note	<input checked="" type="checkbox"/> medical	<input checked="" type="checkbox"/> midwifery		
Partogram group	[n/a]			
Marking in Course	[red]			
Code	1306			
Template	#	* indicates the location of the field sequence		
Fields	Heart rate - text Temperature - numeric	Up	Down	New
		Modify	Delete	
Template component	. Temp: #	* indicates the location of the field value		
	<input type="checkbox"/> hide label of selected field in template if field is empty			
Combined (template)	HR: #, Temp: #	Everywhere	Nowhere	
	<input type="checkbox"/> hide all optional components in the example provided above			
	OK	Cancel		

- Have you finished adding fields? Continue with [step 13](#) of the section “[New note definition](#)” earlier in this chapter. Do more fields need to be defined? Repeat steps 1 through 5 for this.

### View new template

- Start Mosos <CTG> Console and connect a (trial) patient.
- Click [Pregnancy report notes].



- Click [New note/order].



- Select 'Note type' and 'Concerns'.
- Select the new template from the selection list provided.
- Complete the fields with the data and click on [OK]. View the partus report.

7. Determine whether the template and display in the note are in accordance to the expectations.
8. In the example used earlier in this chapter (note with check Heart Rate/Temperature), the template and the note should look as follows:

**Observations - midwifery - Mother**

Date:  Time:

Note by:

By order of:

Display as note in graph

---

**Standard observations**

Heart rate: Number of beats  per minute

Temperature:  C

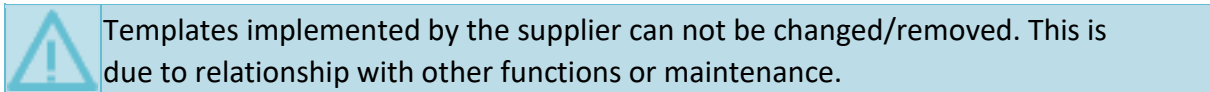
Time	Initials	B.o.o.	Concerns
16:46	K	Mother	HR: Number of beats 80 per minute, Temp: 36,8 C

9. If not, return to the template to make the necessary adjustments.

## Maintenance; Modify / Delete note definitions

- [\(In-\)compatible modifications](#)
- [Modify \(Template/Field\)](#)
- [Delete \(Template\)](#)

It is possible to make changes to an existing templates 'on the fly'. Users cannot use a template in the Mosos software whilst it is being modified. The following notification will be displayed if a user tries to open a template whilst it is being modified: The notes template for this note is currently being modified by the administrator.



### (In-)compatible modifications

Two types of modifications can be made during the modification of existing templates. Compatible and incompatible modifications. Compatible modifications do not alter the content of the template. For example, to modify the order of fields. Incompatible modifications do cause changes to the contents of the template. For example, when deleting a field.

The following notification will appear when making an incompatible modification: When saving the note definition, the content of existing notes will be converted to free text.

### Modify (Template/Field)

1. Start Mosos Menu.
2. Click on the tab 'Mosos - Base.
3. Click on 'Mosos <Base> Note definitions'.
4. Login. The required authorisation level is 'Administrator' (Mosos <CTG>, <P> or <O>).
5. Select the note definition that requires modification and click on [Modify].
6. Implement the modifications. To modify the content of a field, select the field in question and click on [Modify]. Any list elements can also be modified in the following screen if necessary (Modify notes field).
7. For more information about the various components/fields, refer to the chapter "[Mosos](#)

- Base, Note definitions, Maintenance; Note definitions”.

8. The layout of the template may no longer be correct after implementing modifications. After implementing modifications, always check the “template component” and “Combined (template)” and implement further modifications if necessary.
9. Click on [OK] to save implemented modifications. Once the start-up screen appears again, the modified note is available once more to the users.
10. It is recommended that you check the note definition. Refer to the section “[Viewing a new template](#)” in chapter “Mosos - Base, Note definitions, Maintenance; Note definitions”.

### Delete (Template)



Deleting a note definition is an irreversible and permanent action.

1. Follow steps 1 through 4 from the section “[Modify](#)” for this.
2. Select the template that you wish to delete and click on [Delete].



Is the [Delete] button not accessible? Then the template in question cannot be deleted.

3. The notification “Existing notes will be converted to free text” will appear. Click on [OK] to delete the note definition permanently.
4. Click on the [Close] button to close the program.

## Maintenance; Cluster notes

- [Create](#)
- [Modify existing cluster](#)
- [Remove cluster](#)

It is possible to group a number of existing templates together. This is called a cluster. A cluster is a help to enter multiple notes simultaneously, with minimal operations. In a cluster, different templates are displayed as tabs. They can be either filled with data or skipped.

After completing and saving the cluster, the notes will show separately in the note list / course. Double click to open them and make modifications if necessary.

Required authorisation level (cluster creating): Mosos administrator for Mosos <CTG>, Mosos <P> or Mosos <O>.

### Create

1. Start Mosos Menu, go to tab 'Mosos - Base' and open 'Mosos <Base> Note definitions'. Log in.
2. Click [Note clusters]. A new window will open, containing:
  3. • Clusters: Contains clusters that have already been created.
    - Name: Name of the relevant cluster, free text.
    - Concerns; It is possible to indicate here who the cluster is intended for, mother / child / other.
    - Type of note (if available): It is possible to indicate here whether it is a midwifery and/or medical cluster.
    - Available notes: This lists the notes that are available to use.
    - Selected notes: This lists the notes that have been selected for use.
4. Click [New].
5. Name: Replace the text 'NewX' with the name for the cluster to create.



- It is advisable to start the name with 'Cluster' (or 'Group'). Immediately followed by the subject. This way the difference between the clusters and the self-contained noted is clear.
- Putting a number in front of the name will ensure that the cluster will show at the top of the row (alphabetical order) notes. This way selecting clusters

is easier.

6. Concerns: Place a check mark before Mother/Child/Other.



The choice at 'Concerns' determines which templates are available to create a new cluster. If templates have been given a check mark before 'don't show/hidden', they will not be available for creating a cluster.

7. Available notes: Select the note that needs to be added to the cluster and click [Add>>>]. The selected note will be placed in 'Selected notes'. Repeat step 6 for every note that needs to be in the cluster. To determine the order, select the note (in 'Selected notes') and use the buttons [Up] and [Down] for positioning.
8. In order to delete a note, select the note in the list "Selected notes" and click on [<<<Delete]. The list "Selected notes" contains all notes that make up the cluster.
9. When the cluster is created, click [OK] to store. Click [Cancel] to close the window without storing.



Notes added to a cluster, can still be selected separately. It is not necessary to open an entire cluster if there is only one note to be filled.

### Modify existing cluster

1. Start Mosos Menu, go to tab 'Mosos - Base' and open 'Mosos <Base> Note definitions'. Log in.
2. Click [Note clusters]. A new window will open.
3. Select the concerning cluster.
4. Enter modifications (in 'cluster properties'). See step 6/7/8 at '[Create](#)'.
5. Click [OK] to store or [Cancel] to close the window without storing.

### Remove cluster

1. Start Mosos Menu, go to tab 'Mosos - Base' and open 'Mosos <Base> Note definitions'. Log in.
2. Click [Note clusters]. A new window will open.

3. Select the concerning cluster and click [Delete].
4. Click [OK] to store or [Cancel] to close the window without storing.

## Notes; General information

- [Login notes](#)
- [Add note / order](#)
- [Notes in anonymous CTG](#)
- [Remove note](#)
- [View and edit note](#)
- [Change history](#)
- [Transfer data from notes](#)
- [Additional information](#)

With regard to the distinction between doctor and midwifery notes, the customer can choose between two options:

1. A distinction is made between the doctor's and midwifery notes. This is the default setting.



2. No distinction is made between doctor's and midwifery notes. Existing doctor's and midwifery notes are converted into 'Notes'. The filter buttons [Doctor's notes] and [Midwifery notes] lapse. A new button will be visible, the button [Notes]. By clicking this button, all notes (including Orders) will be shown.




In Course, the former buttons are replaced by the [Course] button. By clicking this button, all lines in Course will be shown, except the lines relating to the CTG recordings and ultrasound examinations. All new notes will be stored as 'Note' in the database.



It is possible to return to the situation where the distinction is made and new notes can again be created as doctor's or midwifery notes.

- All notes that were originally medical notes are then displayed as medical notes again.
- All original midwifery notes are then displayed as a midwifery notes again.
- All notes created during the period when no distinction was made will show as midwifery notes.




- When no distinction is made between doctor’s and midwifery notes, no filter buttons will be visible for notes in partogram. The partogram will show all the notes.
- During installation / update of the software, the customer can choose which of the options above is preferred. This preference will apply to all Mosos modules with the note functionality.
- If no distinction is made between the notes and the customer decides to return to the situation where a distinction is made, all notes entered during the 'no distinction' period will be converted into midwifery notes. This cannot be changed! Any notes from the 'no distinction' period containing medical information will not be shown when using the filter button [Doctor’s notes].

### Login notes


Regarding creating / modifying / removing notes, there are two options in the program settings.

1. Users can enter/modify/delete notes directly. This is the default setting by supplier.
2. Users must log in again to enter, change or delete notes (i.e. the NotesAuthentication setting).



To read notes it isn't necessary to login as 'note user'.

The moment a user wants to add a note or remove / modify a note, user has to login again (pop-up window appears). This second login allows the user to work as a 'note user'.



Only applicable when option 2 (login 'note user') is set by supplier.

As long as user works in the program, the login remains valid. Automatically logout in case:

- Login by another user.
- 5 minutes of inactivity.
- End session (example: close 'Notes').


### Add note / order

Through the button [New note/order] it is possible to enter information directly in the


relevant part of the record. It is of course still possible to return to the concerning part of the record (in the concerning program/module) and enter information in the fields on the tabs.




1. Click on [New note / order].

 A note/order can be added directly via the CTG strip in Mosos <CTG> Console. Use the right mouse button to click on the patient's running CTG strip. A context menu will appear. Click on the text 'New note/order' and follow the steps described below.


2. If the login pop-up appears, enter login name / password and click [OK].
3. Under 'Type of note', choose (where necessary) between: Medical note, Midwifery note or Order. Depending on the choice, a list of selection options will appear (in the lower part).
4. Concerns: Indicate for whom the note / order is intended: Mother, Child, Other.

 Notes that have been made for reviewing CTG recordings can only be retrieved in Mosos <CTG> Console. To find the note, use the functions '[Review/print CTG](#)' or '[Overview of unreviewed CTGs](#)'.

5. Select the desired note and click [OK].

 The section 'Recently used notes' contains the notes which are used most frequently by the user. In the section below an overview of all available notes.

6. The note will open and data can be entered. Date / Time are already filled, but can be adjusted (manually).
7. No other note to fill? Click [OK]. Another note to fill? Click [OK+next] en repeat step 2 to 6.

 It is possible to enter a note with a past date/time. A future date is not possible. The date/time of creation is stored in the database so the supplier can verify if a order is entered afterwards.

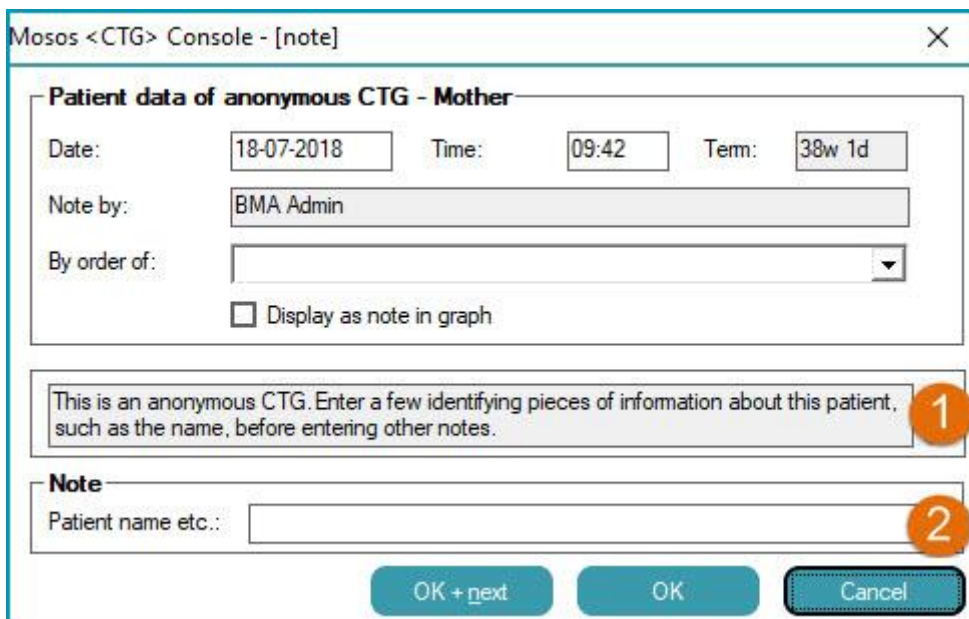
8. For more information about orders, zie the chapters '[Single order](#)' and '[Repeating order](#)'.

### Additional information

- A check mark in front of 'Display as note in graph' is only necessary if the text must be shown as tool tip on the graph.
- Used the button [OK+next]? The note type and 'concerns' (mother/child/other) will be the same in the next note. This can be adjusted manually.
- Initially 'Note type' and 'Concerns' are filled automatically. This depends on the user and from which place the note is created. For example, make a note in graph 'Mother'? 'Concerns' is automatically filled with 'Mother'.

### Notes in anonymous CTG

1. Click on [New note / order].
2. If the login pop-up appears, enter login name / password and click [OK].
3. The first time a note is entered for this recording, the note 'Patient details for anonymous CTG' will appear. This note contains the text: 'This is an anonymous CTG. Enter some identifying information about this patient, such as the name, before entering other notes.'  
(1)



4. Under (2.), enter patient identifying information; Name, birth name, date of birth etc.



Enter at least the name/birth name and the date of birth. More identifying information being known makes it easier to find the correct patient leading to fewer errors being made when information is registered.

5. No other note to fill? Click [OK]. Another note to fill? Click [OK+next].

6. Go to step 4 in the [‘Add notes’](#) section earlier in this chapter.
7. Once the recording is complete, the recording can be stopped. The recording can be found using the [‘View and Print CTGs’](#) function where it can be registered to the correct patient. Chapter [‘Mosos - CTG, Console, Anonymous CTG’](#) contains more information about registering an anonymous CTG to the correct patient.



Hospitals that use an ADT connection\*\*: this will render TEMP numbers redundant.

### Additional information

- The notes functionality for anonymous CTGs is limited. It only allows simple notes to be entered. It is not possible to enter cluster notes or orders and pregnancy reports cannot be printed.
- The identifying text entered in the note ‘Patient information for anonymous CTG’ is available in several locations: As a note in the note summary of the corresponding recording, in the note summary above the filter buttons and when viewing the CTG recording at the top left of the CTG strip.
- As soon as the CTG recording has been linked to the correct patient, the note ‘Patient information for anonymous CTG’ is deleted. The note can still be viewed in the notes history.

### Remove note

1. Select the concerning note (in Notes overview or Course) and click the Delete button. Before the note can be removed, the user must enter a reason for the removal. This is a mandatory field.



2. If at first the pop-up window 'User login' appears, log in and click [OK].
3. Enter a reason (compulsory field, free text) and save this. This will permanently delete the note or order and it can no longer be undone.
4. If the focus is then moved to a different line in the Course, the fact that the deleted note has been struck through will become visible. The note in question will also disappear from the overview after clicking on [Refresh] or after re-starting Course.



Only notes can be removed from the overview. Other information (from the patient record) has to be removed in the record itself. Deleted notes are

hidden, but not removed from the database. They just not show in the user interface any longer. For more informations, see chapter '[Mosos - Base, Notes, Pregnancy report notes](#)'.

The notes will be struck through. Notes that have been struck through are no longer immediately visible in the actual note report. Notes that have been struck through can be viewed using the filter “amended and deleted notes”. The change history can be displayed per note. It is also possible to export the change history to MS® Excel®.

For more information, please refer to the “[change history](#)” section further along in this chapter.

### View and edit note

1. By double clicking on a note, the corresponding template is displayed.
2. Click [View / Edit].



3. If at first the pop-up window 'User login' appears, log in and click [OK].
4. Enter modifications and click [OK].

For more information, see the manual, chapter '[Mosos - Base, Notes, Pregnancy report notes](#)'.

### Additional information

- When an existing note is opened, the user who originally created the note is listed as “Note by”. This field is “read only” and therefore cannot be modified.
- When an existing note is opened, the user will see the date and time of the original entry at the bottom (read only). The user can also see whether the note is backdated.
- The “Initials” column in the notes summary lists the abbreviated name of the user who last updated the note.

### Change history

The entry and modification of a note is recorded in the change history.

### Opening / viewing change history


1. Select the relevant note in the Notes overview/Course and open the note.

2. Click on [Show history].
3. The “Change history of note” screen will be opened. This provides a history of the creation/modification.
4. Select a date/time in the top section in order to view the changes that have been made.
5. Click on [Close] to close the screen and return to the note.


### Export change history

1. First select the patient.
2. Open the pregnancy report notes.
3. Click on the 'Data' menu in the menu bar.
4. Then click on 'Pregnancy report notes'.
5. Then on 'Export change history'.

The history will be displayed in a worksheet, provided that MS Excel is also available on the workstation in question. However, the history will simultaneously be stored as a file, even if MS Excel is not available on the workstation in question.




Amended notes (including deleted notes) can be viewed using the filter “amended and deleted notes”. The change history can be displayed per note. The required authorisation level is administrator.



### Transfer data from notes

Data entered in notes, are automatically used in graphs / tables / calculations.



This only applies to notes provided by the supplier.

### Display as note in graph

By placing a check mark before 'Display as note in graph', the note is placed in the concerning graph (mother or child). In the graph an icon is shown: This doesn't apply to data

used to fill graphs/tables/calculations. Regardless of a check mark is placed, these will always be transferred.

### Additional information

- Notes (and orders) also have a relationship with Course and Mosos - O - Clinical Record (optional functionalities).
- Notes can also be entered and edited from the Mosos <P> and Mosos <O> programs. For the most recent content of the pregnancy report, click on [Refresh]. .



- When a distinction is made between doctor's notes and midwifery notes: Depending on the currently logged-in person, the 'Type of note' box will have a default value. The following types of relationship automatically start with a medical note: gynaecologists, physician assistants, midwives and apprentice midwives. All other relationships will automatically start with a nursing note.
- The content of the selection list with names will be put together by the functional application administrator using Mosos <Base> General Maintenance. If desired, the supplier can set which names can be selected for nursing and medical notes. For example: if a medical note is selected, then the selection list for the 'Note by' field will only contain the names of gynaecologists, midwives and physician assistants. This option is only applicable when a distinction is made between doctor's and midwifery notes.
- Sometimes a note contains more information than visible on the screen. In that case, a scroll bar is displayed on the right side of the note.
- Try to choose the best fitting note for the information that needs to be entered. In case none of the notes fits, choose the 'free text' note.
- There are two types of notes in the program. Notes that have a relationship with other components. For example, note 'Feeding child, which is also visible in the graph 'Child. These notes are installed by supplier and can't be changed by the customer. Second type are the notes which can be adapted to the requirements of the customer (Notes maintenance). These notes have no relationship with other components.
- When creating an order, it is possible to choose a note cluster (field: Subject). The orders will be displayed in separate lines in Course. Data entering in these orders can also be done partially and be stored intermediately.
- At the bottom of the notes template there is an indication as to whether the entered data

are also being displayed in the partogram\* and if so, which colour is being used to display these data.

*\* ADT connection: the connection by which patient data are sent from the hospital's information system to Mosos.*

## Notes; Note cluster

- [Fill cluster](#)
- [Modify cluster](#)
- [Remove cluster](#)

A cluster is a group of note templates together. An input to enter more notes with fewer steps.

The cluster notes are in the same list as the separate notes. The application administrator can define clusters and give them a name. For example: The name of a cluster note template will always start with 'cluster' or 'group'. That way they are easy to find in the list of notes.

### Fill cluster

1. Open the Pregnancy report notes or Course of the concerning patient.
2. Click on [New note / order] or [Note] and log in if required.
3. Select (if necessary) the note type and whom it concerns.
4. Double-click in the list at 'Recently used notes' or 'Notes' on the cluster that has to be filled in.
5. The cluster opens. Each topic is on a separate tab.
6. Enter data and click on the next tab.



The tabs containing data are marked with an asterisk.

7. Once the cluster has been filled in, click on [OK] to confirm the entry. By clicking on [Cancel], you exit the window without saving the data. If another note is to be added, click on [OK + next] and follow steps 3 - 7 until all the data have been entered.
8. In the notes overview / Course, the content of all note tabs of a cluster are listed on their separate lines.

### Modify cluster

Because every tab of a cluster (if filled with data) is shown (in overview or Course) on its own line, it is not possible to modify a cluster as a whole. It is possible to modify per note.

1. Open the Pregnancy report notes or Course of the concerning patient.
2. Double-click on the note which should be modified.
3. Modify the data.
4. Click [OK] to store or [Cancel] to close the window without storing.

### Remove cluster

Because every tab of a cluster (if filled with data) is shown (in overview or course) on its own line, it is not possible to remove a cluster as a whole. It is possible to remove per note.


1. Open the Pregnancy report notes or Course of the concerning patient.
2. Select the note which should be deleted.
3. Click on [Delete].
4. The concerning note is struck through and by clicking [Refresh] it also disappears from the overview.



Modifications are automatically documented and stored. Removed notes are stored in the database, but no longer visible in the user interface.

# Pregnancy report notes

## Button summary Pregnancy report notes

 Access to buttons depends on authorisation, settings and in which part of the program the user is working.



or



[Doctor's notes]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Midwifery notes]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Notes]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Orders]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Recordings]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Maternal parameters]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[STAN<sup>®</sup> notes]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Deleted and amended notes]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Notes partogram]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Notes concern]; Mother, child or other

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[New note/order]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[View / Edit]

Chapter '[Mosos <Base> Note definitions, General information](#)'.



[Delete]

Chapter '[Mosos <Base> Note definitions, General information](#)'.



[Show CTG]

Chapter '[Mosos - CTG, Mosos <CTG> Console, Display a CTG](#)'.



[Print pregnancy/partus report]

Chapter '[Mosos- CTG, Mosos <CTG> Console, Printing notes and recordings](#)'.



[Print recording]

Chapter '[Mosos- CTG, Mosos <CTG> Console, Printing notes and recordings](#)'.



[Refresh]

Chapter '[Mosos <Base> Note definitions, General information](#)'.



[Close]

Chapter '[Mosos - Base, Start, Login and closing](#)'.



## Additional information

### Distinction

If there is no distinction between medical and nursing notes, these two filter buttons will not be shown. The button [Notes] will appear instead. By clicking this button, all notes (including Orders) will be shown.




## Pregnancy report notes

- [Pregnancy report content](#)
- [Filter notes](#)
- [Close](#)
- [Additional information](#)

With this function you can describe the progress of a patient for the purpose of her admittance to the delivery room in the form of notes.



 Depending on the settings it is or is not necessary to log in as a 'note user'. For more information, see chapter '[Mosos <Base> Note definitions, General information, Log in](#)'.


### Pregnancy report content

The pregnancy report can contain different types of notes. The content of the pregnancy report consists of:

- Depending on the software settings, (no) distinction is made between doctor's notes and midwifery notes. See chapter '[Mosos <Base> Note definitions, General information notes](#)'.
- Orders (pertaining to mother, child or other issues).
- Recording lines are automatically created and can also contain notes such as evaluations. For more information about alarm notices, see chapter '[Mosos CTG, Mosos <CTG> Console, Alarm, Settings](#)'.
- Maternal parameters (SpO2, NIBP, MHR) if available, are automatically created.
- STAN® events (STAN integration is optional).

The entered notes, orders, recordings and maternal parameters are displayed in an overview.

Time	Initials	B.o.o.	Concerns	Content
Date: 01-05-2018				
08:52	BMA	BMA	Mother	Recording 17_4 (A), Room: VK17, Length: 0h 06m
09:18	BMA	BMA	Mother	Perfect signal quality












 A pregnancy report is a summary of the course of the pregnancy, parturition and childbed. The report is completed through the standardised fields in the 'Patient parturition and child data' function. This is done in Mosos <P>. In the event of

multiple births, one report per child is created. Enter a check mark for each child for whom you want to print out a pregnancy report. Customers who do not have these functions or programs cannot print out a pregnancy report. Only the notes report can be printed for these customers.

If you wish to enter/view/modify or delete notes, please refer to chapter '[Mosos- Base, Mosos notes, General information](#)'.

### Filter notes

The content of the notes report can be partially or fully displayed on the screen. Use the filter buttons to make your selection (several filter buttons can be used at the same time). Depending on the settings, the following filter buttons are available:

[Doctor's notes]		[Recordings]	
[Midwifery notes]		[Maternal parameters]	
[Notes]		[STAN® events] (if available)	
[New note/order]		[Notes linked to the partogram] (in Mosos Comfort)	
[Orders]		[Notes regarding mother, child or other issues]	
[Deleted and amended notes]			

The content is always sorted by date and time: the most recent note at the top. If the pregnancy report has a lot of notes, then the vertical slide bar can be used to display the remaining content of the pregnancy report.

### Close

Notes overview can be closed by:

Clicking at the 'Close' button in the Notes field or by clicking at another button on the Console tool bar.



### Additional information

- For more information, see also '[Mosos <Base> Note definitions, General information](#)', '[Displaying a CTG](#)' and '[Printing notes/recordings](#)'.



- In Mosos <CTG> Console it is possible to open/edit a note - entered by the user (shown by a yellow block) - directly from the CTG strip. The alarm notes (orange block) cannot be opened, these are system notes. Click on the yellow block to open the note and edit it if necessary.
- Several notes templates are provided with the program as a standard. A new template can be created and added using Mosos <Base> Note definitions, if desired. You can also edit a number of existing templates. Mosos <Base> Note definitions can be operated by the functional application administrator. In this program you also set whether a certain note is shown in the partogram.
- A registration line is automatically created for every CTG recording. This registration line contains the start date and time, the unique recording number, time period, location and duration. If the CTG has been evaluated, then the text and the initials of the evaluator are automatically entered in the registration line. If you are dealing with a relocated CTG, then the source or target data are also listed in the registration line. If available and used, the values of the maternal parameters are also automatically included in the content. This also applies to STAN<sup>®</sup> events. recording lines, maternal parameters and STAN events cannot be edited or deleted.
- Some cardiotocographs automatically calculate a FMP (Fetal Movement Profile). A note is always created and this is forwarded to the notes summary in Mosos. If this is not required, the supplier can ensure that this note is not displayed in Mosos (by modifying the syspar).

# Orders


## Single order

### Via Course/Notes overview

1. Open the Course of the patient.
2. Go to the section 'Planned' and click [Order].

	If Course is not installed, an order can be entered through the Notes Overview. Click on [Notes]. Click on [New note/order]. Log in if necessary and go on with step 3 below.
	A note/order can be added directly via the CTG strip in Mosos <CTG> Console. Use the right mouse button to click on the patient's running CTG strip. A context menu will appear. Click on the text 'New note/order' and follow the steps described below.

3. Fill the fields with data:
  - Note by; This field is “read only” and displays the name of the logged in (note) user.
  - By order of; For example, the responsible gynecologist.
  - Display as note in graph; Placing a check mark will make the note visible in graph (as a notebook icon).
  - Concerns; Make sure the right person is entered (so the note will be visible in the correct graph).
  - Subject; Choose the right order, so when running the order, the corresponding screen will open. Mandatory field.
  - Description; Free text.
  - By; The person to execute the order.
  - Type of note (if necessary); Medical or midwifery.
  - Start date / time; Leave the start date / time as is if the notification is effective immediately. The system will then track when a task needs to be performed. If not, then modify this. (In the screen section 'To be performed').
  - Repeating order; Do not place a check mark (unless it has to be a repeating order. For more information, see chapter '[Repeating order](#)').

	If an order has already been executed, start date/time can't be changed. A single order can be changed in to a repeating order by placing a check mark in the box 'Repeating order' and fill in the pattern.
---	--

4. Click [OK]. When multiple orders have to be made, click [OK + next] and repeat step 3 to 4.

**5. Course:**

In the section 'Current pregnancy' the corresponding order will be displayed. Including date / time the order is generated.

**6.** The program automatically gives orders a number. A single order gets 1, 2, 3 etc. The order (in section 'Current pregnancy') gets the same number as the corresponding task in section 'Planned'.

### Additional information


- It is possible to enter an order with a date and/or time in the past. A date in the future is not possible (this appears as a notification). The date and time of creation will be tracked in the database, so that it is possible to check retrospectively whether an order was entered.




If 'partial implementation' is selected, then the completed text will not be visible in the Decursus or the graph. Only when 'implementation' is selected will all the information be entered.


## Repeating order

1. Open the Course of the patient.
2. Go to the section 'Planned' and click [Order].

 If Course is not installed, an order can be entered through the Notes Overview. Click on [Notes]. Click on [New note/order]. Log in if necessary and go on with step 3 below.

 A note/order can be added directly via the CTG strip in Mosos <CTG> Console. Use the right mouse button to click on the patient's running CTG strip. A context menu will appear. Click on the text 'New note/order' and follow the steps described below.

3. Fill the fields with data:
  - Note by; This field is “read only” and displays the name of the logged in (note) user.
  - By order of; For example, the responsible gynecologist.
  - Display as note in graph; Placing a check mark will make the note visible in graph (as a notebook icon).
  - Concerns; Make sure the right person is entered (so the note will be visible in the correct graph).
  - Subject; Choose the right order, so when running the order, the corresponding screen will open. Mandatory field.
  - Description; Free text.
  - By; The person to execute the order.
  - Type of note (if necessary); Medical or midwifery.
  - Start date / time; Leave the start date / time as is if the notification is effective immediately. The system will then track when a task needs to be performed. If not, then modify this. (In the screen section 'To be performed').
  - Repeating order; Place a check mark.

 If an order has already been executed, start date/time can't be changed. A single order can be changed in to a repeating order by placing a check mark in the box 'Repeating order' and fill in the pattern.

4. The repeat schedule will become accessible and can be completed.


Frequency; Click in the time line at the point when the order must be executed. A red line will appear. Clicking again on the red line, will make it disappear. If an order must be executed multiple times, just click on every point where it must be executed. It is also possible to adjust those moment by dragging the red line to another position. When an

order must be executed 3 times a day, it's also possible to enter '3' in the box after 'Frequency'.

The program will automatically divide those 3 times in the time line. This can be adjusted by dragging the red lines to other positions. When an order must be executed several times per hour, this can be indicated by 'Frequency'. In which case the time line is no longer usable.

Period; Default setting. Can be adjusted manually. 00.00 - 23.45 hrs.

Daily; Execute the order daily? Place a check mark. Not daily? Just place a check mark before the days needed.

 Execute 5 or more days? Place a check mark at 'Daily' and remove the check marks (at the days) not needed.

End date/time; Default the parturition/outcome date and time will automatically mark the end of the repeating pattern. Just remove the check mark and enter end date/time above, if another date/time is desired. If only a date is entered (and no end time) the end of the repeating pattern will be at the end of that day.

5. Click [OK]. When multiple orders have to be made, click [OK + next] and repeat step 3 to 6.
6. In Course – in the section “planned” – the order will be displayed as follows:
  - Task: In the section 'Planned': With the next date/time at which it must be executed.
  - Order: In the section 'Current pregnancy': With date/time the order is generated.

### Additional information

- The program automatically gives orders a number. A single order gets 1, 2, 3 etc. A repeating order gets 1.1, 1.2, 1.3 etc. The order (in section 'Current pregnancy') gets the same number as the corresponding task in section 'Planned'.
- If the desired start date/time doesn't fit within the days / times of the repeating pattern, the program will use the first date/time that fits. For example: Start date is a Wednesday, but there's only a check mark placed before Thursday. Then the executing of the task will take place that Thursday.
- The check mark before 'parturition / outcome date and time.....' will disappear (automatically) once an outcome date is entered in a Mosos program.
- Time line period is from 00.00 hrs up to 23.45 hrs.

## Execute order

### Via Course/Notes overview

1. Open the Course of the patient.
2. Double click at the order that needs to be executed (section 'Planned'). The order will open.



No Course? Open the Note Overview and select the task corresponding with the order. Use the filter buttons if necessary. Double click to open.

3. Enter the requested data and click on [Executed].



It's possible to execute an order partially. After entering the information, click on [Partially implemented]. The information will be saved, but is not yet visible in Course / Graph. The order will remain in the 'Scheduled' section. Only once [Implemented] has been clicked will this order move to the section 'Current pregnancy' and will all entered information be visible in Course / Graph.

4. The executed order will appear in the section 'Current pregnancy' (in Course).
5. If it was a single order, the order disappears from the section 'Planned'. If it is a repeating order, the next order will appear in the section 'Planned' and the executed one will appear in the section 'Current pregnancy'.

## Modify order

### Via Course/Notes overview

1. Open the Course of the patient, got to the section 'Current pregnancy' and double click on the respective order. This can not be done in the section 'Planned'. Double clicking in there will open the corresponding task.



No Course? Open the Note Overview and select the task corresponding with the order. Use the filter buttons if necessary. Double click to open.

2. Modify the order and click [OK] to save.
3. When you want the original order to remain visible (in the section 'Current pregnancy'), the order should be stopped (see chapter 'Don't execute or remove') and a new order has to be created.



If an order has already been executed, start date/time can't be changed. A single order can be changed in to a repeating order by placing a check mark in the box 'Repeating order' and fill in the pattern.

## Don't execute / Remove an order

### Via Course/Notes overview

#### Order not performed

1. Open the Course of the patient.
2. Double click (left mouse button) on the task that doesn't need to be executed. In Course in section 'Planned'.



No Course? Open the Note overview, select the relevant order (use filter buttons if necessary) and double click on the order to open it.

3. Click [Don't execute].
4. If this is a repeat order, then perform the following steps: Indicate whether this order should not be performed, or whether the entire order should be stopped.
5. If the order as a whole should be terminated, click on [Yes]. The order will remain, but there will be no task lined up.
6. If only this specific task should not be performed, click on [No]. A reason should be given as to why this task is not being performed.
7. Once the reason has been entered, click on [OK].
8. The Course or the Note overview states that this task was not performed and - in the case of a repeat order - the next task is scheduled.

#### Remove an order

1. Open the Course of the patient.
2. Select the relevant order in the 'Current pregnancy' section and click on the [Delete] button. Answer the control question with [Yes]. If necessary, click on [Refresh] to refresh the screen. The order (and the scheduled task) will be deleted.



No Course? Open the Note overview, select the relevant order (use filter buttons if necessary) and click on the [Delete] button. Answer the question 'Are you sure you want to delete this note?' with [Yes] and the order (including the scheduled task) will be completely removed.

## Mosos <PatientView>

### Button summary Mosos <PatientView>



Access to buttons depends on authorisation, settings and in which part of the program the user is working.

#### General

##### [Login]

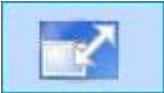
To login: Click the button [Login] to open Mosos <PatientView>.



The other items are only available after selecting a module.

##### [Whole screen]

This will open the window in the maximum size. Click on <ESC> on the keyboard to return to the normal mode.



##### [Refresh]

The information that is displayed will then be updated with new data.



##### [Print]


A screen will open that allows the user to choose from a number of print settings.



- Number of copies: Default 1. Can be changed here.
- Number of lines for comments: Default 2 lines per bed. Can be changed here.
- Show empty rooms / beds: Check/uncheck if you do or do not want to print.
- Show an extra empty room: Check / uncheck if you do or do not want to print. Useful for possible emergency admissions.
- Select rooms for print: Adjustable per room to print or not.
- 'Check all rooms' to print all rooms in the department.

- 'Check all my rooms': produces a print-out of all rooms for the logged in user, provided the logged in user is also listed as obstetric responsible staff member. (See: '[Bed summary management, bed characteristic](#)').

After setting the print preferences, it is possible to select a print sample or to print the document.

 Notes can be made on the printed version that will later be added to the file. It is important to take into consideration the disadvantage here that the file will not immediately contain the most up-to-date information.

In addition, the screen contains various 'arrow' buttons, to open / close sidebars.



#### [Connect]

Select a blank line in the overview list and click on this button to register a patient (selection screen appears). It is also possible to click on the right mouse button and select this option in the appearing pop-up menu.



#### [Disconnect]

Select a patient in the list and click on this button to disconnect this patient.



#### [Properties]

This button makes it possible to adjust the room / bed code and the option baby stays in room yes / no. Select the relevant client for this and then click on this button. This can also be achieved when selecting the client, by using the right mouse button.



#### [Maintenance]


With this button it is possible to manage wards / rooms / buttons and possibly assign a midwife / physician / nurse. Chapter '[Mosos - Base, Mosos <PatientView>, Maintenance](#)'.



## Admission and delivery overview

[Select date]

Chapter 'Mosos - Base, Mosos <PatientView> Admission overview'.

08-11-2022 

[Show overview]

Chapter 'Mosos - Base, Mosos <PatientView>, Admission overview'.

Show overview


## Mosos <PatientView> Overview

### Open

1. Open Mosos Menu and go to tab 'Mosos - Base'.
2. Click on Mosos <PatientView> to open the overview screen.



3. Enter *login name, password* and click [OK].

	It's not possible in PatientView to log in for the first time ever and change password. A new user should log in another Mosos program first to adjust his/her password.
---	--

4. The overview screen opens. Depending on which modules are installed, they are or aren't accessible. Click on the name of the module (left side) to open it.

Mosos <PatientView> contains four modules:

- Bed overview: Belongs to 'Clinical file'. With other modules to purchase separately.
- Delivery rooms: Belongs to Mosos <CTG> Console. With other modules to purchase separately.
- Admission overview: To purchase separately.
- Delivery overview: To purchase separately.

### Screen content

[Login]

To login: Click the button [Login] to open Mosos <PatientView>.



[Whole screen]

This will open the window in the maximum size. Click on <ESC> on the keyboard to return to the normal mode.



[Refresh]

The information that is displayed will then be updated with new data.




[Print]

A screen will open that allows the user to choose from a number of print settings.



- Number of copies: Default 1. Can be changed here.
- Number of lines for comments: Default 2 lines per bed. Can be changed here.
- Show empty rooms / beds: Check/uncheck if you do or do not want to print.
- Show an extra empty room: Check / uncheck if you do or do not want to print. Useful for possible emergency admissions.
- Select rooms for print: Adjustable per room to print or not.
- 'Check all rooms' to print all rooms in the department.
- 'Check all my rooms': produces a print-out of all rooms for the logged in user, provided the logged in user is also listed as obstetric responsible staff member. (See: '[Bed summary management, bed characteristic](#)').

After setting the print preferences, it is possible to select a print sample or to print the document.

	Notes can be made on the printed version that will later be added to the file. It is important to take into consideration the disadvantage here that the file will not immediately contain the most up-to-date information.
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In addition, the screen contains various 'arrow' buttons, to open / close sidebars.



[Connect]

Select a blank line in the overview list and click on this button to register a patient (selection screen appears). It is also possible to click on the right mouse button and select this option in the appearing pop-up menu.



[Disconnect]

Select a patient in the list and click on this button to disconnect this patient.



[Properties]

This button makes it possible to adjust the room / bed code and the option baby stays in room yes / no. Select the relevant client for this and then click on this button. This can also be achieved when selecting the client, by using the right mouse button.



[Maintenance]

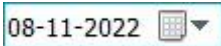
With this button it is possible to manage wards / rooms / buttons and possibly assign a midwife / physician / nurse. Chapter '[Mosos - Base, Mosos <PatientView>, Maintenance](#)'.



### Admission and delivery overview

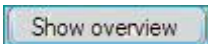
[Select date]

Chapter 'Mosos - Base, Mosos <PatientView> Admission overview'.



[Show overview]

Chapter 'Mosos - Base, Mosos <PatientView>, Admission overview'.



## Mosos <PatientView> Bed overview - Maintenance

- [Create a ward / room / bed](#)
- [Block / Unblock a bed](#)
- [Bed properties](#)
- [Room properties](#)
- [Show empty rooms / beds](#)



The button [Maintenance] can be operated by all users. With this button it is possible to create departments / rooms / bed, (un)block bed, assign responsible nurse/midwife/physician etc.

It's also possible to add - temporarily - another department to the overview in case a pregnant patient is placed on another department (like a pregnant patient with a broken hip, placed on the orthopaedic department.).

It is also possible to link a responsible nurse / maternity assistant to a room (via a selection list). A responsible doctor can be linked to a bed. Midwives / maternity assistants / doctors who are authorised as Mosos users will automatically appear in this list.



The button [Maintenance] can be operated by all users (with the proper authorisation). The Trust must define which users will be granted the access to manage the department/rooms/beds in PatientView. To prevent changes that are not intended.

### Create a ward / room / bed

#### Create a department

1. Click [Maintenance] and select [new].
2. Click the [mutation button](#).
3. Department: Enter the name of the concerning department. Place a check mark before 'Show on DR board'.
4. Click 2x [OK].



User created only a department. No rooms / beds yet!

### Create a new room, including a bed

1. Click [Maintenance] and select the concerning department.
2. Click the mutation button and select [new]. Click on the mutation button again.
3. Room number: Enter the room number (or name) of the concerning room.
4. Bed: Click [new] and the mutation button.
5. Bed code: Enter name or number.
6. In this screen it is also possible to block a bed, assign the responsible doctor / midwife and place a check mark before 'show bed on DR board'.
7. Click [OK].
8. To add another bed, follow steps 4 to 7 above.
9. By clicking [OK] several times, until the maintenance screens are closed, the user will return to the overview screen.




To create a new department, including rooms/beds: Click [Maintenance] > double click [new] > enter department name > double click [new] > enter room number (choose responsible nurses if necessary) > double click [new] > enter bed code (choose responsible physician/midwife and place check mark if necessary) > click [OK] 4 times to return to the overview.

### Create a bed in an existing room


1. Click [Maintenance] and select the concerning department.
2. Click the mutation button and select [new]. Click on the mutation button again.
3. Bed: Click [new] and the mutation button.
4. Bed code: Enter name or number.
5. In this screen it is also possible to block a bed, assign the responsible doctor / midwife and place a check mark before 'show bed on DR board'.
6. Click [OK].

- By clicking [OK] several times, until the maintenance screens are closed, the user will return to the overview screen.

	<p>If the module 'Bed overview' is installed: Add a new bed to a room can be done by clicking in the 'empty white space' in a room (with right mouse button). Click in the pop-up menu on 'Room properties' and add a bed by using [new] and the mutation button (as above).</p>
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## Block / Unblock a bed

- Click with right mouse button on the concerning bed.
- Click on [Block bed] or [Deblock bed].
- If necessary, a reason for blocking can be entered. Click with the right mouse button on 'Bed properties', place a check mark before 'block bed' and enter a reason in the concerning field. This reason will also be visible in the tool tip.

	<p>When the options 'block/unblock' are not accessible (greyed out) it's due to the fact:</p> <ul style="list-style-type: none"> <li>a patient is linked to the bed.</li> <li>the bed is associated with a CTG location. Go to 'Bed properties', remove the check mark before 'Show bed on DR board' and be sure the CTG location is empty.</li> </ul>
---	--

## Bed properties

- Click with right mouse button on the concerning bed and click 'Bed properties'.
- Here it's possible to (un)block bed, enter the responsible midwife / obstetrician, place / remove a check mark before 'show bed on DR board' and link the bed to a CTG location.

	<p>If a patient is linked to a bed, it is not possible to block the bed.</p>
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## Room properties

- Click (with the right mouse button) on an empty place in the room. Click in the pop-up menu on 'Room properties'.
- Here it is possible to adjust / enter room number, department, the responsible nurse and

add a bed.


### Show empty rooms / beds

Click (with the right mouse button) on an empty space in Bed Overview and place / remove a check mark before 'Show empty rooms' and / or 'Show empty beds'.



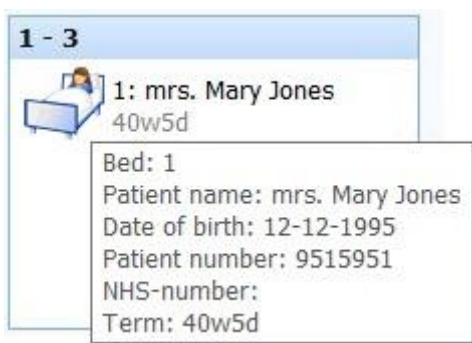
By default all empty rooms / beds will show.

# Mosos <PatientView> Tooltip and patient related information

 Some of the features described below are only accessible in Bed Overview. Other parts can be found in several overviews within PatientView.

## Tooltip

By pointing at a patient (with the mouse pointer), a tool tip will be displayed. In the tool tip some information about the patient is displayed. Double click on the patient (name or icon) to open Course (if installed). The indication for admission is removed if the discharge date is in the past. The other information remains visible.



When a patient is no longer linked to a bed and one needs information from out of the Course, one is able to open Course using the button [Course] in Mosos <O>.



## Side bar (detail information)


Besides the tool tip (limited amount of information) there is also a possibility to show a comprehensive summary of patient data. Select the concerning patient (click once on the name of the patient) and then click on the arrow on the right side of the screen.

In the bar that appears, a summary of data is shown. The content depends on the phase of the pregnancy and isn't adjustable. If the side bar is showing and another patient is selected, the content will automatically refresh.

## Patient related information


Click (with right mouse button) on a patient to open a pop-up menu for patient related management. Depending on the overview the user is working with, the buttons below will or

will not show.

	<p>Mainly use the right mouse button for the handling / information. For patient-related matters (such as disconnecting or baby in the room), select the patient first. A tooltip will appear with more information about the patient.</p>
---	--

### Baby in the room, yes or no


1. Click (with right mouse button) on the concerning patient.
2. Click [Baby in the room]. This button is available if the day of birth is entered in Mosos <CTG> or Mosos <P> (tab 'Stages of birth).

	<p>Multiple birth? Still only one baby icon appears.</p>
---	--

3. Also possible through the button [Properties].

### Copy patient number to clipboard

1. Click (with right mouse button) on the concerning patient.
2. Click 'Copy patient number to clipboard'.
3. When to use? When another Mosos module is used, the user can copy the number and paste it (right mouse button) into the correct field of the patient selection screen of the other program.

	<p>This function is available in: Bed Overview and in the overviews of Delivery Rooms, Admissions and Delivered.</p>
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### Characteristics of patient

1. Click (with right mouse button) on the concerning patient.
2. Click 'Properties'.
3. Adjust the department / room / bed code and place (if necessary) a check mark before 'baby in room'.

### Register patient

1. Click (right mouse button) at the concerning bed.

2. Click 'Register patient'.
3. Select the concerning patient.
4. If necessary, place a check mark before 'Baby in the room'.
5. Click on [OK].
6. It is also possible to connect a patient, using the [Register] button in the bar above the overview.
7. Each patient can be registered to a bed, even without a current pregnancy or without a Mosos file. During registration a (new) Mosos file can be created.


 When using the right mouse button to register/disconnect a patient and the options are not accessible (greyed out) that's due to the fact the bed is associated with a CTG location. Go to 'Bed properties', remove the check mark before 'Show bed on DR board' and be sure the CTG location is empty.

### Disconnect patient

1. Click (with right mouse button) on the concerning patient.
2. Click 'Disconnect patient'.
3. It is also possible to connect a patient, using the [Register] button in the bar above the overview.

### Move a patient

Use the button [Properties] or drag (with the mouse) the patient to another bed.

 If a patient is going to be discharged from the hospital or ward, it is often already known which patient is going to be registered next (to the bed). Sometimes it is convenient to add an extra bed to the room (bed code 'Next patient') and register the next patient to it.

At the time of admission, this new patient can be dragged to the right bed. This will only work if the new patient is not registered to another bed yet (e.g. in Delivery room overview), a patient can only be registered to one bed at the time.

### Responsible (maternity) nurse and doctor / midwife

If assigned, the responsible nurse is shown next to the name of the room in Bed overview and in the column 'Nurse' in Delivery rooms.

#### Bed overview (maternity) nurse

1. Click (right mouse button) on the concerning room in Bed overview to open the menu.
2. The name of the user (logged in) is shown in the list 'Responsible (maternity) nurse', provided that the users profile is (maternity) nurse.
3. By clicking on the name, a check mark appears before the name to indicate that the user is assigned as the responsible (maternity) nurse.
4. By clicking the name again, the check mark disappears and the (logged in) user is no longer assigned as responsible (maternity) nurse.



It's not possible to grant a sign / tel.nr here. That should be done through 'Room properties'.

5. To change the responsible (maternity) nurse, open the menu, go to (maternity) nurse and select another (maternity) nurse.



Quick search: Type the first letter of the name the user is looking for. The names are displayed in alphabetical (first name basis) order.

#### Bed overview doctor / midwife

1. Click (right mouse button) on the concerning room in Bed overview to open the menu.
2. Click 'Bed properties'.
3. Choose 'Responsible'.
4. Select the concerning name.
5. Enter signal / phone number.
6. Click on [OK].

#### Delivery rooms

1. Click (with right mouse button) on the concerning patient.

2. Click [Care]\*.
3. Select the responsible nurse.
4. Enter signal / phone number.
5. Select the responsible maternity nurse.
6. Enter signal / phone number.
7. Click on [OK].

*\* For assigning the responsible obstetrician / midwife, follow the steps above. At step 2 choose 'obstetrician or midwife' instead of 'Care'.*

## Mosos <PatientView> Bed overview

The module 'Bed overview' is accessible by logging in to Mosos <PatientView> and only available in combination with Mosos - O - Clinical Record\*. The overview offers a current, graphical overview of all patients admitted to the ward and the patients in the delivery rooms. In addition, obstetric patients admitted to other wards can be displayed as well, all depending on the layout the customer desires.

### Tooltip

By pointing at a patient (with the mouse pointer), a tool tip will be displayed. In the tool tip some information about the patient is displayed. Double click on the patient (name or icon) to open Course (if installed). For more information, see chapter '[Tooltip and patient related information](#)'.

### Side bar (detail information)

Besides the tool tip (limited amount of information) there is also a possibility to show a comprehensive summary of patient data. Select the concerning patient (click once on the name of the patient) and then click on the arrow on the right side of the screen.

In the bar that appears, a summary of data is shown. The content depends on the phase of the pregnancy and isn't adjustable. If the side bar is showing and another patient is selected, the content will automatically refresh.

### Course

Double click on the patient's name or icon, will open the Course of that specific patient. In Mosos <O> it is also possible to open the Course by clicking on the button [Course].



### Close

To return to Mosos <O>, the Clinical Record and Course have to be closed. Use the button [Close]. Minimize Course will not work, it should be closed completely. This is intended for the purpose of showing there is still an open file and prevents the user of entering data in the wrong record.



[Filter per department]

It is possible to filter per department in the Bed overview. An overview of the created rooms

/ locations can be displayed per created department (or for all departments combined).



## Mosos <PatientView> Delivery rooms

The delivery room screen contains an overview of all current deliveries. For more information about login in, see '[Overview PatientView](#)'.

### Department

Choose a department or specific room.

### Course

Select a patient and click on it to open Course.



This is optional and depends on the purchased modules/programs.

### Mosos <CTG>

The locations in Mosos <CTG> can be linked to the beds in the Delivery Room module. Changes and data input in Mosos <CTG> is automatically transferred to the Delivery Room module.

### Additional information

- Dilation / Membranes ruptured / Position (child): This information is derived from the note 'Vaginal examination'. After the date and time of birth are entered (in Mosos <CTG>, tab stages of birth), the information disappears from the overview.
- 'Medical indication' is derived from the input in Mosos <O>.
- If entered, the medical indication and the position of the child is displayed in the column 'Details'. The order of the indications is equal to the sequence indicated in Mosos <O>. The column also includes the medical indications of previous pregnancy (ies).
- Term: Ante partum it shows the current pregnancy term. On the day of delivery 'delivery' is shown. And post partum, the time / date of birth is shown, including how many days ago parturition took place.
- Post partum the tool tip holds information about 'start parturition' and 'birth assistance'.
- Midwife / Physician: Contains the responsible midwife / physician, including signal / phone number.
- Nurse: Contains the responsible nurse, including signal / phone number.

## Admission and discharge

### Button summary Admission and discharge



Access to buttons depends on authorisation, settings and in which part of the program the user is working.

[New admission]. Chapter '[Mosos - Base, Admission and discharge, Admission](#)'

New admission

[New anamnesis]. Chapter '[Mosos - Base, Admission and discharge, Medical history](#)'.

New anamnesis

In addition, various 'arrows' (buttons) to open / close parts of the screen.

# Admission

- [With Mosos - O - Clinical Record](#)
  - [Admission via Bed Overview](#)
  - [Admission via Mosos <O> and Course](#)
- [Without Mosos - O - Clinical Record](#)



In general, an admission in Mosos is independent of connecting to a bed in Bed overview. A patient can be connected to a bed without an admission yet. For example, when a bed should be set aside for a particular patient.

## With Mosos - O - Clinical Record

### Admission via Bed Overview

1. Open Mosos <PatientView> and go to Bed overview.
2. Click (right mouse button) on the concerning bed.
3. Click [Register patient].



4. The screen 'Select patient' will open. Select the concerning patient. If the patient is unknown, create a new record. See chapter '[Mosos Base, Start, Create a record](#)' for more information.
5. Click on [OK].
6. Double click on the bed to open Course. Go to the tab 'Admission'.
7. Click [New admission] to enter new admission data.
8. Fill in at least the date of hospitalisation and the indication for hospitalisation to continue with the admission procedure.
9. Click [OK] to confirm the admission. The admission is now realised and the medical history (in this case all information important for care during admission) can be completed. For more information, see chapter '[Mosos Base, Admission and discharge, Medical history, General information](#)'.

### Admission via Mosos <O> and Course

1. Select the patient and open the record of the concerning patient.
2. Click on [Course].



3. Double-click on the patient in the bed overview and go to the 'Hospitalisation' tab to enter the admission.
4. Click [New admission] to enter new admission data.
5. Fill in at least the date of hospitalisation and the indication for hospitalisation to continue with the admission procedure.
6. Click [OK] to confirm the admission. The admission is now realised and the medical history (in this case all information important for care during admission) can be completed. For more information, see chapter '[Mosos Base, Admission and discharge, Medical history, General information](#)'.

### Without Mosos - O - Clinical Record

Customers without Clinical Record, can create an overview of admissions / discharges via tab 'Visits' (subtab 'Admission') in Mosos <O>.

1. Start Mosos <O> and log in if required. Select the patient and open the record of the concerning patient.
2. Open tab 'Visits' and go to subtab 'Admission'.
3. To enter new admission data, click [New].
4. Fill in at least the date of hospitalisation and the indication for hospitalisation.
5. Click [OK] to confirm the admission.

## Discharge

- [With Mosos - O - Clinical Record](#)
  - [Discharge via Bed Overview](#)
  - [Discharge via Mosos <O> and Course](#)
- [Without Mosos - O - Clinical Record](#)

### Discharge via Bed Overview

1. Open Mosos <PatientView> and go to Bed overview.
2. Double click on the bed to open Course. Go to the tab 'Admission'.
3. Click 'Discharge'.
4. Enter data beneath 'Discharge'. It might happen the discharge diagnosis is different from the admission indication. Therefore, if desired, enter a discharge diagnosis.
5. Click on [OK].
6. Return to the Bed Overview screen and click (right mouse button) on the concerning patient



### Discharge via Mosos <O> and Course

1. Select the patient and open the record of the concerning patient.
2. Click on [Course].



3. Go to the tab 'Admission' to enter the discharge data.
4. Click [Discharge] to enter the discharge data.
5. Enter data beneath 'Discharge'. It might happen the discharge diagnosis is different from the admission indication. Therefore, if desired, enter a discharge diagnosis.
6. Click on [OK].

## Without Mosos - O - Clinical Record

Customers without Clinical Record, can create an overview of admissions / discharges via tab 'Visits' (subtab 'Admission') in Mosos <O>.

1. Start Mosos <O> and log in if required. Select the patient and open the record of the concerning patient.
2. Open tab 'Visits' and go to subtab 'Admission'.
3. Open the concerning admission.
4. Enter the date of discharge and the discharge indication.
5. Click on [OK].

## Nursing assessment

### General information

A questionnaire, based on Gordon's functional health patterns, to be used by nurses in the nursing process to provide a more comprehensive nursing assessment on the patient. Double-click on the relevant patient in the bed overview and go to the 'Hospitalisation' tab.

#### Open

##### Without admission

1. Click [New anamnesis].
2. The questionnaire will open. Enter data. Part of the data is copied from out of corresponding fields in the patient record. If there is a previous admission (within this pregnancy), data is copied also. The data can be modified manually.



When later on an admission is generated, the already filled questionnaire is connected to that admission. Verify if the data entered, is still correct.

##### With admission

1. Click [New admission].
2. The screen 'Add admission & discharge' opens. Enter data beneath 'admission'. Click [OK] to confirm.
3. The questionnaire will open. Enter data. Part of the data is copied from out of corresponding fields in the patient record. If there is a previous admission (within this pregnancy), data is copied also. The data can be modified manually.

#### Enter data

By clicking on the title bar (for example 'General'), the questionnaire will open and data can be entered. Part of the data is automatically copied from corresponding fields (in patient record). If there is a previous admission (within the same pregnancy) part of the data is also copied. During a current admission, changes can be made at any time.

By clicking on the arrows (end of bar) it is possible to expand / fold the individual questionnaires. Use the scroll bar on the right to navigate between the questionnaires.



When a date of discharge is entered and a new admission + nursing assessment is required, it is no longer possible to edit the questionnaires from a previous admission.

## Nursing assessment; Components



- All data (needed in the questionnaires) which is already entered in other parts of the Mosos modules, is copied to the questionnaires belonging to the nursing assessment. Check all the data, because the situation / well-being of the patient might be different from a previous moment.
- If a questionnaire is not applicable because there are no particulars to be entered, place a check mark before 'Not applicable'. That way other people know that the questions have been asked.

### *General*

Contact information / proficiency and course admission / discharge.

### *Health Perception & Management*

Expectations admission / previous experiences, but also for allergies, blood transfusions, alcohol use and smoking habit.

### *Nutritional & metabolic*

About nutrient intake relative to metabolic need. Diet restrictions / daily food and fluid intake, dental problems, but also feeding policy (child).

### *Elimination*

About the function of the bowel / bladder and about vomiting.

### *Activity exercise*

About problems on activity level. Like the range of motion, exercise pattern and general mobility.

### *Sleep & rest*

Assesses sleep and rest patterns. Like sleep routine, sleep apnea or sleep onset problems.

### *Perception & cognition*

Assesses the ability of the individual to understand and follow directions, retain information, make decisions, and solve problems.

### *Self perception/self concept*

How to deal with emotions / pain. Optionally, the ability to have a talk with, for example, a chaplain or an anesthesiologist.

### *Role & relationship*

Information about family structure, help needed after discharge, problems at home during admission etc.

### *Sexuality & reproductive*

Negative sexual experience (think of sexual harassment), experiences vaginal examination and notes about sexuality and reproduction.

### *Coping-stress tolerance*

Free text field to write notes about how the patient is coping with stress and what she needs in order to relax.

### *Values & Belief Pattern*

Value / belief and wishes concerning religion. For example, whether a spiritual counsellor should/should not attend during the hospital stay. Also contains a field whether there is an objection against male caregivers.

### *Details*

Free text field for information which can not be placed within the previous parts.

## Graphs, timeline and fluid balance

### Button summary Graphs



Access to buttons depends on authorisation, settings and in which part of the program the user is working.

[New]



Chapter '[Mosos - Base, Graphs, Graph mother](#)'.

[Print...]



Chapter '[Mosos - Base, Graphs, General information](#)'.

[Open / Close legend]



Chapter '[Mosos - Base, Graphs, Graph child](#)'.

The time line and the fluid balance contain no separate buttons.

## Graphs; General information

In Mosos - O - Clinical Record on the tab 'Admission' graphs will show. By clicking on the title of the graph, they will open. Use the + an - button to set the number of visible days.

There is a graph of the patient and of each born child (this pregnancy). The graph of the child(-ren) is visible after selection of the admission which contains the parturition and when the parturition is registered in Mosos <CTG> or Mosos <P>. The parturition day is highlighted yellow.

The day that is highlighted blue is the last admission day +1 day and contains no data. Use the slider at the bottom of the graph to view different days.

All kinds of notes can be displayed in the graph, but a few of the notes are specially made for the Clinical Record. Based on the data entered in these notes during an admission, the corresponding graph is automatically filled.

### [New]

By clicking at the button [New] the user is able to directly enter a note into the graph. By default the field 'Concerns' is set to mother or child, depending on which graph is opened.



### [Display as note in graph]

Notes with a check mark before the field 'Display as note in graph' are visible in the graph as a tooltip. Click on the tooltip to open the note. If two or more tooltips coincide, the tooltips will be merged into one list.



### [Print]

By clicking at the button [Print], the print menu will open and the graph can be printed. On top of the print the name of the hospital, the name of the patient, date of birth and patient hospital number will be printed.



## Print from Mosos <O>

It is possible to print the graph(-s) from out of the Mosos <O> module.

1. Click [Letters and documents].



2. Click [Reports] and select 'Graphs of mother / child'. Click [OK].



3. The print order is created and visible in the overview screen. Double click to open the settings screen . Indicate which graph must be printed and/or whether the nutrition table must be printed as well. Decide on the range (all number of days).

4. Click [Close].

5. Click [Print].



6. Select, if necessary, the printer and click [Print].

## Graph child

- [Graph content](#)
- [Feeding policy](#)
- [Nutrition table](#)
- [Print](#)

There is a graph of each born child (this pregnancy). The graph of the child(-ren) is visible after selection of the admission which contains the parturition and when the parturition is registered in Mosos <CTG> or Mosos <O>/<P>. The parturition day is highlighted yellow. The day that is highlighted blue is the last admission day +1 day and contains no data.

With the slider beneath the graph it is possible to view all days (during admission). The parts of the graph can all be expanded or folded with the arrow buttons.



The legend is visible on the right side of the screen and at the bottom of the screen the nutrition table is visible.

[New]

By clicking at the button [New] the user is able to directly enter a note into the graph. To make the note visible as a tooltip in the graph, place a check mark before 'Display as note in graph'.



### Graph content

Contains curves (weight / temperature), a dotted line at the level of birth weight (default at -10%, modifiable by supplier) and various markers. These markers are automatically displayed based on entered notes.

The components of the graph can be check marked in the key to the graph. Default setting is check marked. If a box is not check marked, the associated element (icon, graph lines and Y axis) in both the graph and the report (print) will not be displayed.



#### *Note*

Indicate there is a note (containing data) available. Click on the icon to open the note. Move the mouse pointer over the icon to see a summary of the content.



#### *Heel prick (or Guthrie test)*

From note: Heel prick  
Field: Heel prick = yes



*Vitamin K*

From note: Vitamin K

Field: Vitamin K = yes



*Feeding*

From note: Feeding child

Fields: Quality of breastfeeding (green = good +, yellow = moderate +/- and red is bad -). A white dot indicates formula feeding or breast / supplementary feeding with no quality data.



*Glucose curve*

From note: Child observations

Field: Glucose



*Temperature curve*

From note: Child observations

Field: Temperature



*Weight curve*

From note: Child observations

Field: Weight



*Heart rate*

From note: Child observations

Field: Heart rate



*Respiration*

From note: Child observations

Field: Respiration



*Urate*

From note: Child observations

Field: Urate = yes



*Stool*

From note: Child observations

Field: Stool = yes and/or type of stool contains data



*Voiding*

From note: Child observations

Field: Voiding = yes



Guideline birth weight - 10%

From: Mosos <P>/<O>

Field: Birth weight -10%



- When a baby is transferred from another hospital / location, it is recommended to enter the birth weight in Mosos <P> on the tab 'Newborn'. That will make the guideline visible in the graph of the baby. This guideline is based on the field in Mosos <P> and not on the weight in the note 'Child observations'.
- If only a date of birth and no time of birth is entered in Mosos <P>, birth weight will be shown in the graph at 0:00 hrs. If there is also no date of birth entered, the graph will not show on the tab Admission (in Clinical Record).

## Feeding policy

Right above the graph there is a frame which contains the feeding policy. The data in this field comes from the note 'Feeding policy'. If a new policy is entered, this field will be updated automatically. The latest policy will be visible that way.

## Nutrition table

All lines in this table are filled with data from out of the 'Feeding child' note. With one exception: column 'Vomitting'; this data comes from the note 'Child observations', field 'Vomit (= yes)'. The most recent note at the top of the table.

Double click on a line to open the concerning note. Move the mouse pointer to a line to show a summary of the note.

The amount of food is added continuously during the day (24hrs) and the total shows in the line with the date of that day.

Feeding child								
Day / time	Quality	BF	Supplementary feeding	Method	FF	Amount	Vomitting	Remarks
08-05-2014 (Day 1 p.p.)						100		
14:00						25		
13:55							yes	
12:55	+	left/right				75		
07-05-2014 (delivery)						25		
09:28	±	left/right				25		

## Print

By clicking at the button [Print], the print menu will open and the graph can be printed.



It is possible to print the graph and the nutrition table separate or together. In addition it is also possible to indicate the range (all / number of days). On top of the print the name of the hospital, the name of the patient, date of birth and patient hospital number will be printed. Also the most recent policy (feeding) is printed.

It is possible to print the graph(-s) from out of the Mosos <O> module.

1. Click [Letters and documents].



2. Click [Reports] and select 'Graphs of mother / child'. Click [OK].



3. The print order is created and visible in the overview screen. Double click to open the settings screen . Indicate which graph must be printed and/or whether the nutrition table must be printed as well. Decide on the range (all number of days).

4. Click [Close].

5. Click [Print].



6. Select, if necessary, the printer and click [Print].

## Graph mother

- [Graph content](#)
- [Print](#)

The graph contains a number of curves (blood pressure / temperature / pulse /saturation), a dotted line to indicate the normal temperature and various markers. These markers are automatically displayed based on entered notes. The content of the graph is only visible if an admission is created / selected and the note is generated within the period of this admission.

With the slider beneath the graph it is possible to view all days (during admission). The parts of the graph can all be expanded or folded with the arrow buttons.

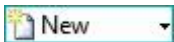


The parturition day is highlighted yellow. The day that is highlighted blue is the last admission day +1 day and contains no data.

The legend is visible on the right side of the screen.

[New]

By clicking at the button [New] the user is able to directly enter a note into the graph. To make the note visible as a tooltip in the graph, place a check mark before 'Display as note in graph'.



### Graph content

The components of the graph can be check marked in the key to the graph. Default setting is check marked. If a box is not check marked, the associated element (icon, graph lines and Y axis) in both the graph and the report (print) will not be displayed. With the exception of 'Anti-D' and 'No Anti-D' which are always selected and disabled.



*Note*

Indicate there is a note (containing data) available. Click on the icon to open the note. Move the mouse pointer over the icon to see a summary of the content.



*Anti-D*

From note: Anti-D

Field: Anti D administered: Yes



*No Anti-D*

From note: Anti-D  
 Field: Anti D administered: No



*Blood pressure curve (systolic / diastolic)*  
 From note: Controles ante partum / Controles durante partu / Controles post partum  
 Field: systole / diastole



*Saturation (SpO2) curve*  
 From note: Observations (ante partum / durante partu / post partum)  
 Field: SpO2



*Pulse curve*  
 From note: Observations (ante partum / durante partu / post partum / zitten deze er überhaupt in in GBR?)  
 Field: Pulse



*Temperature curve*  
 From note: Observations (ante partum / durante partu / post partum)  
 Field: Temperature



*Pain Score Curve*  
 From Note; Pain monitoring  
 Field: Pain Score



*Temperature guideline 37 °C (normal)*



*Glucose curve*  
 From note: Observations (ante partum / durante partu / post partum)  
 Field: Glucose



*Blood loss (red drops)*  
 From note: Observation post partum and Blood loss (ante partum)  
 Field: Blood loss

- none = no drop
- minimal = 1 drop
- moderate (clear < menstruation) = 2 drops
- heavy = 3 drops
- clots = 4 drops



*Voiding (blue drops)*  
 From note: Observation post partum

Field: Voiding = spontaneous



*Infusion (blood)*

From note: Blood transfusion

A red icon will show at start and stop time. On the right side of the start icon, a dotted line in the same colour (red) will show. As time passes by this line will grow longer. Once a stop time is entered a similar red icon will show at the end of the dotted line. If there are two separate intravenous lines of the same type (both blood), the graph will show 2 separate lines of the same colour beneath each other.



*Infusion (medication)*

From note: Infusion medication

A yellow icon will show at start and stop time. On the right side of the start icon, a dotted line in the same colour (yellow) will show. As time passes by this line will grow longer. Once a stop time is entered a similar yellow icon will show at the end of the dotted line. If there are two separate intravenous lines of the same type (both medication), the graph will show 2 separate lines of the same colour beneath each other.



*Infusion (fluid)*

From note: Fluid in

A green icon will show at start and stop time. On the right side of the start icon, a dotted line in the same colour (green) will show. As time passes by this line will grow longer. Once a stop time is entered a similar green icon will show at the end of the dotted line. If there are two separate intravenous lines of the same type (both medication), the graph will show 2 separate lines of the same colour beneath each other.

**Print**

By clicking at the button [Print], the print menu will open and the graph can be printed.



It is possible to print the graph and the nutrition table separate or together. In addition it is also possible to indicate the range (all / number of days). On top of the print the name of the hospital, the name of the patient, date of birth and patient hospital number will be printed. Also the most recent policy (feeding) is printed.

It is possible to print the graph(-s) from out of the Mosos <O> module.

1. Click [Letters and documents].



2. Click [Reports] and select 'Graphs of mother / child'. Click [OK].



3. The print order is created and visible in the overview screen. Double click to open the settings screen . Indicate which graph must be printed and/or whether the nutrition table must be printed as well. Decide on the range (all number of days).
4. Click [Close].
5. Click [Print].




6. Select, if necessary, the printer and click [Print].


## Fluid balance

weight			weight
fluid in oral	500 ml		fluid in oral
fluid in parenteral	1,106 ml		fluid in parenteral
fluid out			fluid out
fluid balance	1,606 ml		fluid balance
stool			stool
fundal height			fundal height
proteinuria			proteinuria

The table below the graph of the mother shows 'fluid' data automatically, based on data entered in notes. The values are cumulative and calculated per day.



In order to calculate properly it is important to enter the 'ending time' and (if applicable) the remainder of an infusion in the 'Fluid in' note. As long as there is not an ending time entered, the corresponding line in Course will be shown in green writing.

Fluid in - oral	<ul style="list-style-type: none"> <li>Note: Fluid in</li> <li>Field: Oral, Quantity. (Cumulative value per day.)</li> </ul>
Fluid in - Parenteral	<ul style="list-style-type: none"> <li>Note: Fluid in</li> <li>Field: Parenteral, Quantity; If 'ending time' is entered and minus the content entered in the field 'Remainder'. (Cumulative value per day.)</li> </ul>
Fluid out	<ul style="list-style-type: none"> <li>Note: Fluid out</li> <li>Field: Urine, Breastfeeding and Other. (Cumulative value per day.)</li> <li>Note: Blood loss (ante partum)</li> <li>Field: Quantity. (Cumulative value per day.)</li> </ul>
Blood transfusion	<ul style="list-style-type: none"> <li>Note: Blood transfusion</li> <li>Field: Quantity; If 'ending time' is entered and minus the content entered in the field 'Remainder'. (Cumulative value per day.)</li> </ul>
	<div style="border: 1px solid #00a0c0; padding: 5px; background-color: #e0f2f7;">  <p>In the fluid balance the value will show in the line 'Fluid in parenteral'.</p> </div>
Fluid balance	<ul style="list-style-type: none"> <li>Sum of the lines above: Fluid in (oral) + Fluid in (parenteral) - Fluid out.</li> </ul>
Stool	<ul style="list-style-type: none"> <li>Notes: Antenatal observations, Observations during labour and Postpartum observations.</li> <li>Field: Stool. The table will show 'Yes' if at least once a day 'yes' is entered in the field 'Stool' in one of the notes mentioned above.</li> </ul>
Fundal height	<ul style="list-style-type: none"> <li>Notes: Antenatal observations, Observations during labour and Postpartum observations.</li> <li>Field: Fundal height; Last entry in this field in the relevant day.</li> </ul>
Weight	<ul style="list-style-type: none"> <li>Notes: Antenatal observations, Observations during labour and Postpartum</li> </ul>

	<p>observations.</p> <ul style="list-style-type: none"> <li>Field: Weight; Last entry in this field in the relevant day.</li> </ul>
Proteinuria	<ul style="list-style-type: none"> <li>Note: Fluid out</li> <li>Field: Proteinuria; Last entry in this field in the relevant day.</li> </ul>

## Timeline


On the bottom of the tab 'Admission' (in Mosos - O - Clinical Record) the timeline is visible.

It shows all admissions during the current pregnancy (shaped as 'cubes'). By selecting a cube, the corresponding data of admission / discharge and the nursing assessment will show.









# Mosos - Base - Report generator

## Button summary Report generator


 Access to buttons depends on authorisation, settings and in which part of the program the user is working.



- |   |   |
|---|---|
| <p>[User login]<br/>Chapter '<a href="#">Mosos - Base, Start, Login and closing</a>'.</p>                   |    |
| <p>[Save report]<br/>Chapter '<a href="#">Mosos - Base, Mosos - Base - Report Generator, Report</a>'.</p>   |    |
| <p>[New report]<br/>Chapter '<a href="#">Mosos - Base, Mosos - Base - Report Generator, Start</a>'.</p>     |  |
| <p>[Select report]<br/>Chapter '<a href="#">Mosos - Base, Mosos - Base - Report Generator, Report</a>'.</p> |  |
| <p>[Output to]<br/>Chapter '<a href="#">Mosos - Base, Mosos - Base - Report Generator, Report</a>'.</p>     |  |
| <p>[Close]<br/>Chapter '<a href="#">Mosos - Base, Start, Login and closing</a>'.</p>                        |  |

## Report generator; Start

A report contains a set of data taken from the Mosos database. With Mosos - Base - Report generator it is possible to compose lists with desired data. The results are presented using Microsoft® Excel® or Microsoft® Excel® viewer.



Report Generator has to be installed separately by the IT department on an administrator computer. For each system 1 licence is included in the initial installation. Additional licences are an option. Microsoft Excel also has to be installed on this computer. Knowledge of the input fields (in Mosos) is necessary to ensure accurate and meaningful reports.

- [Login](#)
- [New report definition](#)
  - [Creating columns](#)
  - [Filter](#)
  - [Sub conditions](#)
  - [Main conditions](#)

### Login

Open the Mosos menu (tab 'Mosos - Base') and select and open the program 'Mosos - Base - Report generator'. Follow the login procedure (authorisation required, adjustable via Mosos <Base> General Maintenance.). After a successful login procedure, the window 'Select a report' will open and the program is ready to use.

[New]

Make new report definitions.

[Delete]

Delete present report definitions.

[Open]

Open present report definitions to view/edit.

### New report definition

1. Start the Report generator (via Mosos menu) and login. The window 'Select a report' will open.
2. A new report definition can be prepared using the [New] button in the 'Select a report' window, using the [New report] button in the tool bar or via the 'Report' menu, option 'New'.



3. The window 'Report definition' will open.
4. An empty report is displayed in which a new definition can be made. That consists of:
  - A section 'Fields'; To select the fields required in the report.
  - A section 'Filter'; Where to define the filter to limit the outcome.
5. *Name*  
Mandatory field. The report will be saved with the name entered here. All characters are allowed. It is recommended to use the subject of the report in this field. For instance; patients aged 35 and older. It is also advisable to use the period in this field. Such as month/year.
6. *Per*  
This field will be filled automatically (with database level to be searched).

## Creating columns

The section 'Fields' defines which fields the report should contain. The fields are chosen from the Mosos database. After the report is defined with filters, these fields will be filled with data from the Mosos database.

In other words; What kind of information would you like to see in the report? For instance, a column 'Name patient', a column 'date of birth' and a column 'number of children'. For many reports it is useful to define at least one identifying field (such as patient number).

The columns are generated one by one using the following steps:

1. Perform step 1 to 6 from '[New report definition](#)'.
2. Click [New] in the section 'Fields'. This will open the window 'Select field'.
3. Select a table.
4. Select a field. The drop down list contains the names of the fields as used in the Mosos database.
5. Select a label. The drop down list contains the names of the fields as used in the Mosos programs. Therefore, they are more recognizable. It is often easier to select the desired field from this list. The box 'field' will be filled automatically after selecting a label.

### 6. Column title

Will be filled automatically with the label name. This can be (manually) changed in a different name for the column header in Excel.

### 7. Repeat step 1 to 6 for every column that need to be in the report.



Due to possible links to other programmes, it is important that the column fields are in the correct order. If an order needs to be changed, use the 'up / down' arrows on the right side of the 'Fields' field.

### Edit / Delete a field

- To edit a field: Select the field (section 'Fields'). Click [Open]. Enter desired changes and click [OK].
- To delete a field: Select the field (section 'Fields'). Click [Delete].

### Filter

Defining a filter is not mandatory, but it is recommended. Using a filter will restrict the outcome of the report. For example; Only the records that satisfy the condition 'patient is 35 years or older'. It is best to keep a filter simple, consisting of one or two sub conditions. However, more complex filters with more sub conditions can be made.

A filter consists of a main condition (section 'Filter') and sub conditions. The main condition is a composition of the sub conditions.

### Sub conditions

First, define the sub conditions (for example, to search the records of patients 35 years and older):

1. Click [New] in the section 'Filter'.

2. This will open 'Add filter'.

### 3. Table

Select a table. In this example 'Patient'.

### Field

Select a field from the table 'Patient'. For this example 'BirthDate'. This step can also be skipped.

### Label

Select a field from the table 'Patient'. For this example 'BirthDate patient'. The 'Field' box is then filled automatically.

4. Operator (Editing character): Select a character. Depending on the chosen field, the following characters are available:

- more than (>)
- more than and/or equal to (>=)
- less than (<)
- less than and/or equal to (<=)
- equal to (=)
- not equal to (<>)
- contains
- begins with

5. Value

Enter a desired value (manually). For example a date.

Table:	Patient
Field:	BirthDate
Label:	Date of birth
Operator:	<=
Value:	31-12-1965

6. Click [OK]. The filter will appear in the section 'Filters' and will automatically receive a number.

7. Repeat the procedure for every sub condition.

### Edit / Delete sub condition

- To edit a sub condition: Select the condition (section 'Filters'). Click [Open]. Enter desired changes and click [OK].
- To delete a sub condition: Select the condition (section 'Filters'). Click [Delete].

### Main conditions

The content of the field 'Filter' is the main condition. The main condition is a composition of the sub conditions. The sub conditions are numbered automatically.

As soon as an sub condition is added, the number is also placed automatically in the 'Filter' field. If multiple accessory conditions exist, then 'AND' is automatically entered as relation.

The content of the field 'Filter' can be adjusted manually. The valid characters for editing the main condition:

- numbers
- AND, OR.
- (,)

If the number of a sub condition is not listed in the main condition field (Filter), the sub condition will not be used in the filtering.

## Report generator; The report

- [Save report](#)
- [Edit report](#)
- [Output](#)
- [Close](#)

### Save report

If a user wants to reuse a report, it is possible to save it.

Click on the [Save report] button on the tool bar. This will add the report to the window 'Select a report'. The content of this window is sorted (automatically) and displayed in alphabetical order.



### Edit report

To edit an existing report, open the report from the window 'Select a report'. There are 2 ways to open this window:

1. • Automatic: Following a successful registration procedure, the 'Select a report' window is automatically presented.
  - Manual: Click on the [Select report definition] button in the button bar. Or select the option 'Select report definition' from the 'Report' menu.



2. Select the desired report. Implement the desired changes in the screen sections 'Fields' and 'Filter'. Take a look at an example first if necessary.
3. To save, click [Save report]. A question will pop up: Replace report definition or create new?

[Create]: A new report is created. The initial report remains. If the name of the new report is not changed (compared to initial report), both reports will appear in the window 'Select a report'. Distinguished by a serial number which automatically appears behind the name of the report.

[Replace]: The initial report is overwritten with the new definition.

[Cancel]: By making this choice, you will leave the window without saving the changes that have been made and the existing report will be maintained.

## Output

Use the button [Output to] for output.



There are 4 options:

1. **Excel:** A report will directly be exported and opened with Microsoft® Excel® (or Microsoft® Excel® Viewer®). A temporary filename is given: 'temp\_<nr>.xls'.
2. **Printer:** This option gives output to the (default) printer.
3. **File:** With this option, the report is automatically saved as a Excel file. The program will save it in the provider share -> MososCom -> Output (Windows Explorer). After clicking at 'File' a window opens where a file name can be entered. The name of the report is standard, adjustments can be made manually.
4. **Show number only:** With this option there is no output. In a separate window the program will show the number of records that meet the report definitions.

## Close

There are a couple of ways to close a module:

1. At the upper right of the window



2. Click 'Exit', in the menu bar, tab 'Program > Exit'.

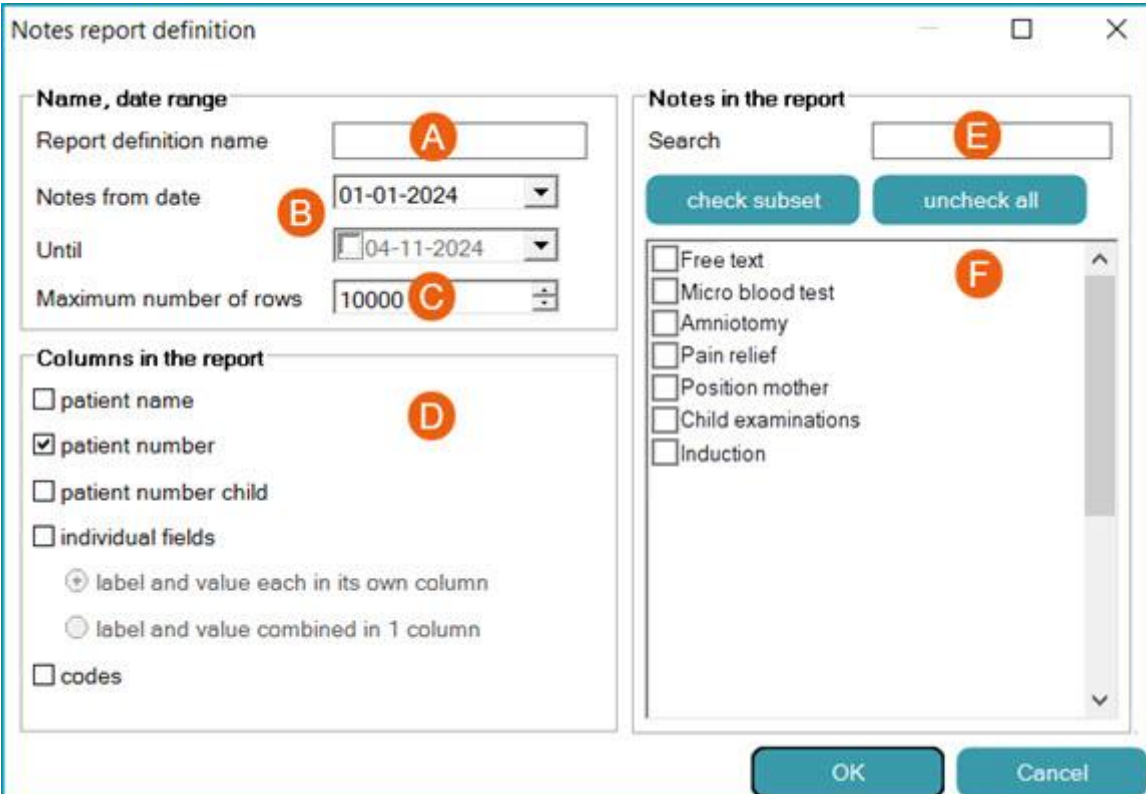
## Note reports

- [Create new note report](#)
- [Buttons](#)

A note report can be prepared in Mosos <Base> Report generator. The report can contain both set notes (provided by the supplier) and self-defined notes. This function can be accessed from the menu bar, under 'Report'.

### Create new note report

1. Open Mosos < base> Report generator and log in, if necessary.
2. Click on 'Report' in the menu bar and then on 'Note reports'.
3. Click on [New] to open the definition screen.



4. Complete the fields and tick which columns/notes must appear in the report.

**A.** Mandatory field. The report will be saved under the name entered. All characters are permitted. It is recommended to use the subject of the report as its name. For example, patients aged 35 years and older or number of Caesarean sections. It can also be beneficial to specify the period as well. For example, the month and/or the year.

- B.** Tick here if the report must contain notes up to the date entered. If this is not ticked, the report will contain data up to the date on which the report was prepared ('today').
- C.** Minimum 1, maximum 999,999,999,999 rows.
- D.** Tick here which columns must appear in the report. At least 1 of the fields 'Compiled note' or 'Individual fields' must be ticked.
  - Compiled note: If a note contains many fields (= lot of data), then all these data are placed in 1 column.
  - Individual fields: In this case, all of the fields from a note are distributed over their own columns, and a choice can be made to combine a label/value or not.
  - Number of note template: This is an automatically generated identification number with which the software can recognise the notes.
- E.** Search/filter function. For example: Type 'ad' and in the notes in the field under the search function, all notes are displayed that contain 'ad' in their name.
- F.** Select here the notes with data that must appear in the report. All the notes are given here, the set ones (prepared by the supplier) and the self-created ones.

**5.** Click on [OK] to save the note report.

**6.** Select a folder on the computer in 'Report directory'. All prepared note reports are stored in this folder. If necessary, click on the modify button behind the field to revise this folder.

**7.** Click on [Create] to generate the recently prepared report. The report is always saved as a .csv file.

**8.** Click on [Open] to view the report.

**9.** Click on [Close] to return to the Mosos <Base> Report generator start screen.

## Buttons

### Create

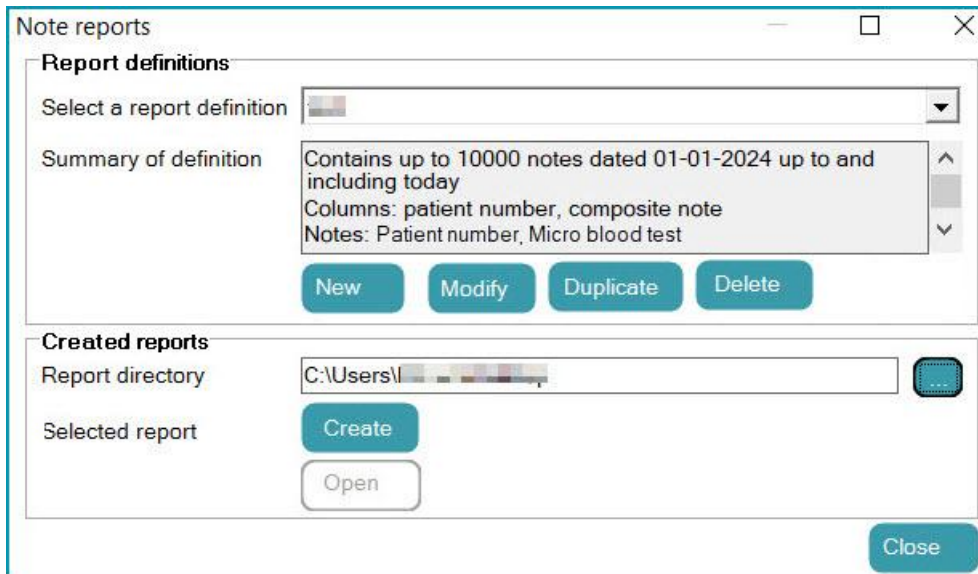
By selecting a report definition and then clicking on [Create], the relevant note report is created. The report is automatically assigned a unique ID number, consisting of the date/time when it was created.

### Open

The most recently created note report can be found here. Click here to [Open]. Previously prepared reports are listed in the directory entered above the [Create] button.

### Modify

It is possible to revise an existing report. Select the report in question and click on the [Modify] button. Make the changes and save the report.



### Duplicate

To prepare a new report on the basis of an existing report, use the [Duplicate] button.

1. Select the report definition to be used as a basis and click on [Duplicate].
2. Change the name of the report definition.
3. Enter the changes and save the new report.

### Delete

1. Select the report definition to be deleted.
2. Click on [Delete].
3. Click on [OK] in the confirmation request field.
4. The report definition is deleted.

## Mosos - Base – WebDoc (optional)

Mosos - Base - WebDoc is an (optional) add on module ; a web application that allows the authorised user to gain access, via Internet and/or Intranet, to letters and documents created in the Mosos patient records.

Mosos - Base - WebDoc means always and anywhere quick and easy access to patient related correspondence, current and possible previous pregnancy(s).

Optional with Mosos - Base - WebDoc is the WebDoc connector. This connector makes it possible to connect Mosos - Base - WebDoc with other information systems, like the Hospital Information System (HIS).

Mosos - Base - WebDoc starts from out of this application and may even be embedded. This way, letters and documents with obstetric data are also available for authorised users from other disciplines.

### How does it work?

When a gynecologist or other authorised user wants to look into letters/documents in Mosos, this can be arranged quickly thanks to Mosos - Base - WebDoc. Via internet, intranet or HIS, WebDoc can open per patient and the user will get direct access to the, in Mosos created, letters and reports.

The only thing a user has to do after this, is to select the relevant document, in any conceivable format.

Mosos - Base - WebDoc is a web service and is able to communicate with numerous applications. Requested documents can be displayed as .doc, .rtf, .txt, .pdf or html. These documents can't be stored in users own system. The documents are always accessible at the source, Mosos.

Working with Mosos - Base - WebDoc: it is simple, accessible and safe. Patient data can be viewed by authorised users only.

### Features of Mosos - Base - WebDoc

- Based on web technology.
- In accordance with security requirements regarding to privacy of patient data.
- Integration in HIS (optional WebDoc connector).
- Overview of all printed documents in the Mosos database.

### The benefits of Mosos - Base - WebDoc

- Relevant correspondence, available always and everywhere: as .doc, .rtf, .txt, .pdf or html.

- Simple and secure access to, in Mosos created, letters and documents via Intranet, internet or - option- the HIS.
- Only requirement: a web browser.
- Accessible and user-friendly.
- More mobility and flexibility for the user.

## WebDoc; Procedure

1. Go to the web browser and open the assigned Mosos - Base - WebDoc link.



Place the link in the 'favourites' list of your browser.

2. Log in with Mosos account: User name and password.
3. Enter patient number and click [Search].
4. Patient data appears, including a list of all records available.
5. Click at the number of the relevant pregnancy.
6. The screen 'Document selection' will appear, containing an overview of present documents.



Only documents that are final are shown. Final implies printed / sent.

7. Select (if necessary) the format in which the document should be opened: .rtf, .pdf, .doc, .txt or HTML.
8. Click [Open] in front of the concerning document.
  - Rich text (Rtf) / Microsoft Word (Doc): A pop up question appears: What do you want to do with this document? Options: Open (without saving), Save or Save as.
  - Adobe Acrobat (Pdf): The document opens in a pdf reader. All options in there can be used to process, save or mail. To return to the screen 'Document selection', use the arrows (left top).
  - Html / Txt: The document opens in a web browser. All options in there can be used. To return to the screen 'Document selection', use the arrows (left top).
9. Printing the document: Use the browser or word print functionalities.

### Buttons



Return to screen 'Select patient'.



Return to screen 'Record selection'.



Under construction.



Close, return to login screen.

## Mosos - CTG

### Indications

Mosos\* CTG is intended to be used in monitoring CTGs when the caregiver decides this examination option is necessary for his/her patient at a particular moment (pregnant women and their unborn child[ren]).

### Intended Users

Professional healthcare providers within obstetric and gynaecological care (e.g. gynaecologists, midwives, nurses etc.) who have an authorisation to use Mosos CTG.

### Intended Purpose

Mosos CTG is intended to acquire, display, and store and annotate information from connected CTG devices with an option to annotate in Mosos CTG on the CTG trace. Mosos CTG offers antepartum and intrapartum alerts of the information that has been acquired from the CTG devices in order to support the healthcare professional in making his/her diagnosis.

Mosos CTG helps the user to monitor the mother's physiological condition from the information derived from the Cardiotocograph (CTG) devices connected to the patient and information entered in Mosos CTG by obstetric care professionals.

### Intended Population

Mosos CTG is intended to acquire, display, store and annotate information on pregnant women and their unborn child(ren), who require monitoring who are connected to Cardiotocograph (CTG) devices.

### Contraindications/Side effects/Residual risks

None, as this medical device is intended for monitoring antepartum and intrapartum CTGs during pregnancies and labour, and the decision on taking a CTG is taken by a caregiver when this examination option is necessary for his/her patient at a particular moment.

### Clinical benefits

The Mosos CTG is a decision support device that enables healthcare professionals to monitor remotely obstetric information and make informed decisions at the right time to provide appropriate care for patients.

## Installation/Upgrade/Update

The installation/upgrade/update of Mosos CTG (as well as providing the Mosos hardware and software requirements document) should only be performed by an authorised ICT HCTS representative.

For proper operation of Mosos CTG, only use CTG devices that use HP50 or STAN protocols (complying with the manufacturer's instructions for use). ICT Healthcare Technology Solutions B.V. recommends using a list of CTG devices which can be requested via the internal Mosos administrator in your organisation who is responsible for coordination with the Mosos supplier.

Whenever you encounter a CTG device not included in the list provided by ICT Healthcare Technology Solutions B.V., please contact ICT Healthcare Technology Solutions B.V. via the [support desk](#).

## Training

Mosos CTG should only be used by healthcare professionals trained in Mosos who possess the authorisation to use Mosos CTG. A request for training can be submitted by contacting the [support desk](#).

## Product Claims

- Monitoring of CTG signals locally and centrally
- Standard display of CTG information
- Storage/archiving the obstetric information regarding each patient

## Operating principle

Mosos CTG provides a continuous overview of all relevant aspects of the actual cardiotocogram, such as foetal heart rate, toco and various maternal parameters. With Mosos CTG, CTG information can be disseminated in real time to show what is happening in multiple delivery rooms at the same time. CTG recordings are accessible to authorised personnel both inside and outside of the hospital or even from home.

Mosos CTG was developed to communicate with various types of CTG monitors that have the 'HP50' - or 'STAN®' - protocol.

Mosos Comfort is a reliable and user-friendly obstetric data management system that allows you to focus your full attention on patients at the very moment they need this attention most.

The Mosos Comfort solution varies from one single PC to systems with multiple servers. The

Mosos Comfort obstetric data management system's modular structure offers a wide range of configurations to meet client requirements.

### Significant performance characteristics

#### Functional performance requirements of Mosos CTG

Performance criteria	Requirement		Reference
Monitoring of CTG signals locally and centrally	Mosos <CTG> Acquisition, Mosos <CTG> Console and Mosos <CTG> Central Monitoring		HP50' - or 'STAN <sup>®</sup> ' - protocol
Standard display of CTG information	Display of the current CTG signal		Using HP50' - or 'STAN <sup>®</sup> ' - protocol
Storage/archiving the obstetric information on each patient	Mosos data consists of two parts of data. One part is stored in files, like the CTG trace itself (as a physical file on the Mosos share). In the Mosos SQL database patient information is stored along with a link for that patient. The link is where the physical file (the trace) is stored.		Local system storage, Mosos database storage
Mosos component response time (sec)	<b>Mosos function</b>	<b>Response time (sec)</b>	Module startup time is measured from the start up from Mosos Menu to the login screen.
	Startup Mosos <CTG> Central monitoring module	10-15	
	Startup Mosos <CTG> Console module	15-30	
	Patient selection screen	Maximum 1	
	Connecting patient	Maximum 1	
	Open patient data	< 1	
	Open Notes Overview	Maximum 1	
	Open memorandum	Maximum 1	

Open partogram	Maximum 2
Switching view Location overview/CTG/Duo	Maximum 1
Open review CTG with 1 hour of CTG	< 3
Open the overview of unreviewed CTG's	< 1
Open alarm settings	Maximum 1
Switch between registrations	Maximum 1
Enable STV	

### Non-functional performance requirements of Mosos CTG

Performance criteria	Requirement
Modules including region-based functionalities	Mosos always consists of the Mosos Base module and 1 or more additional modules, which sometimes can be extended with additional options. Mosos can be configured to Locations (Localization), for instance a country and/or based on the user preferences.
Language	Mosos is available in the official national language(s).

## Technical specifications

### General specifications

- Coding language: VB6, VB.NET, C#
- .NET framework: 4.8
- Operating system: Microsoft® Windows®
- Computing environment: client-server environment
- network: Windows® network, Active Directory

### Signal acquisition

- Supported protocols: HP50 protocol, STAN® protocol
- Data transport: serial communication
- Frequency: heartrate 4Hz; Toco 2Hz

### Alarm detectors

- Brady-/Tachycardia
- FHR signal loss
- Coincidence
- Maternal SpO2

### Integration protocols

- HL7, LDAP

### Scalability

- Mosos supports up to at least 50 connected CTG devices

### Cybersecurity

- Mosos CTG supports SSL/TLS 1.2
- Data encryption on sensitive data
- Passwords stored as a hash
- Audit logging

### Security recommendation

- HTTPS, port 443
- SSL certificate, issued by an accredited institution

*\*Mosos; MOnitoring and Storage of Obstetrical Signals / The official product name of 'Mosos Comfort' is 'Mosos'. To differentiate it from the other products in the Mosos line, the term 'Mosos Comfort' is used in this manual. MososNXT products have their own manuals*

## Mosos <CTG> maintenance

Mosos <CTG> Maintenance provides the ability to manage a number of settings related to the Mosos <CTG> programs. Once logged in, the tab 'Console' appears.

With these programs it is possible to view / modify settings, without intervention of the supplier. These programs can be operated by a user with the correct (administrator) authorisation.

Maintenance of Mosos - CTG is performed with the following modules:

- Mosos <CTG> Maintenance
- Mosos <Base> Note definitions

### Terms

#### *User*

A person who is authorised to use relevant Mosos programs. He/She has been granted a login name and password to access one or more Mosos programs.

#### *Administrator*

A person authorised to manage the relevant Mosos programs. He/She has been granted a login name and password to access relevant programs (especially maintenance programs) as user and administrator.

### Start

1. Open Mosos <Base> Menu.
2. Open tab 'Mosos - CTG'.
3. Click 'Mosos <CTG> Maintenance'. Mosos <Base> Note definitions can be found on the tab 'Mosos - Base'.
4. Enter the login procedure to gain access.

### Screen content

#### **Title bar**

At the top of the screen the title bar is situated, containing the name of the program. On the right are the buttons for window operation and closure of the program (in accordance with the standards of the Microsoft® Windows® operating system).

## **Tabs**

On the tabs (Mosos <CTG> Maintenance) the fields for the purpose of data entry are situated. The tabs are accessible by clicking on the desired tab header.

## Maintenance; Mosos <CTG> Acquisition

Mosos <CTG> Maintenance 'Acquisition' allows you to administer a number of general settings relating to automatically storage/receipt and display of CTG signals.

### Simulation CTG

#### *Simulate CTG*

The acquisition of CTG's can be simulated, for example for a test. Check the selection box when you want to simulate a CTG.



The simulation program suppresses the display of the current CTG signals coming from the cardiotocographs!

#### *Acceleration factor*

An acceleration factor can be specified so that a long 'simulation' CTG can be created in a short period of time. The standard setting is 1. If desired, a higher factor can be entered.

## Maintenance; Mosos <CTG> Console

- [Register patient](#)
- [Recording lines in summary](#)
- [Algorithm patient number](#)
- [Login](#)
- [Settings for each Console application](#)

### Register patient

The default stage of pregnancy for women without prior CTG's is 'antepartum'. Here it is possible to adjust the stage. Options: antepartum, perinatal, postpartum or depending on the type of location (mobile / fixed).

### Recording lines in summary

This section relates to printing out CTG recordings. Every CTG recording is automatically given a unique identification: the recording line. The recording line contains the following information:

- Start and end date and time of the CTG.
- Unique number.
- Indicated time period.
- Name of the location.
- Duration of the recording.


A CTG can be printed out as a summary (one hour CTG, aspect: 1 cm/min.). The notes entered for the CTG (pregnancy report) are also printed out by default. If desired, the recording line can be automatically added to this.

Check the selection box if the recording lines should also be printed out in addition to the notes. The default setting is no check mark: the recording lines will not be automatically printed out.

### Algorithm patient number

When entering patient numbers, the Mosos system checks whether these numbers are correct. Patient numbers must adhere to a specific composition. Select from the following options:

- None: All types of patient numbers are accepted.
- Defined by HIS: The composition according to the hospital information system.
- Other: Enter the number of characters of which the patient number must contain. If the patient number must always contain numbers only then check the selection box for 'Numeric'.

 In the case of an HIS connection, the selection will already be set to 'Defined by HIS' by the supplier. It is recommended that no changes be implemented to this.

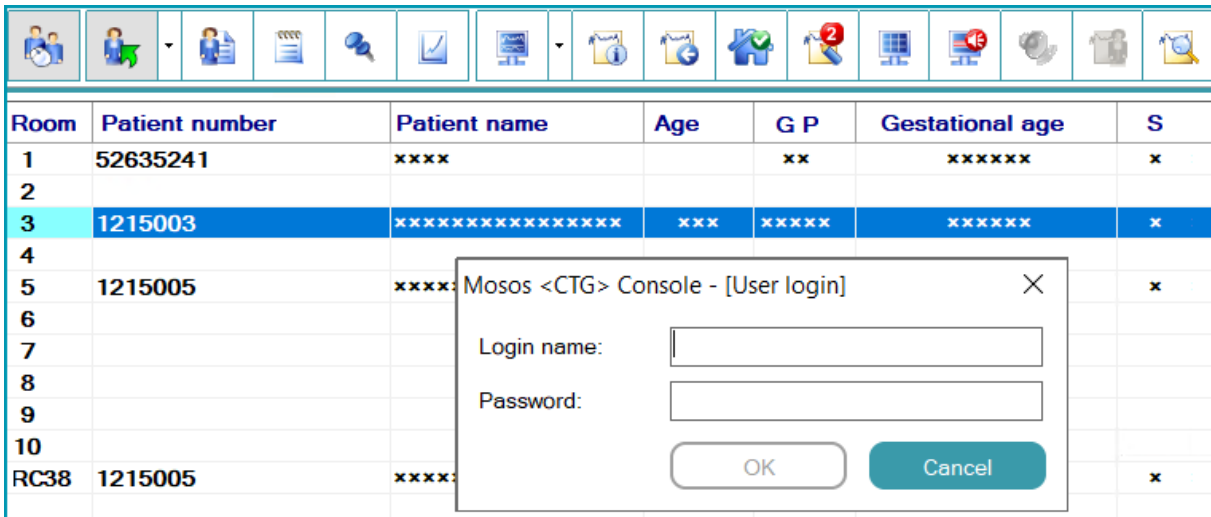
## Login

### Hide form (screen) during login

If there is no tick, then the CTG screen will remain visible during the registration procedure (Mosos <CTG> Console).

### Anonymisation of patient data during login

Place a tick here if all identifying patient information should be displayed in anonymous fashion (in the location overview screen) when no user is logged in.



Room	Patient number	Patient name	Age	G P	Gestational age	S
1	52635241	xxxx		xx	xxxxxx	x
2						
3	1215003	xxxxxxxxxxxxxxxx	xxx	xxxxx	xxxxxx	x
4						
5	1215005	xxxx				x
6						
7						
8						
9						
10						
RC38	1215005	xxxx				x


Mosos <CTG> Console - [User login] X

Login name:

Password:

## Settings for each Console application

It is possible to specify per Mosos <CTG> Console programme whether the alarm function should initially be on or off (no sound).

 For more information on the alarm settings function, refer to the '[Alarm settings](#)' section of the Mosos <CTG> user manual.

## Maintenance; Mosos - CTG

- [View CTG](#)
- [Print text lines underneath CTG trace](#)
- [Alarm](#)
- [FHR signal loss](#)
- [CTG review](#)

Mosos <CTG> Maintenance allows you to administer a number of general settings relating to the Mosos <CTG> programmes. The 'CTG' tab is used to administer several settings related to the automatic receipt and display of CTG signals.

### View CTG

#### View CTG aspect

Default CTG aspect: The standard run speed can be set in this field. Select the desired option.



It is recommended that you find out if national guidelines exist for the run speeds. In the UK the usual setting is 1 cm/min.

#### Colour scheme

The background colour of the FHR strip can be changed under 'View CTG' and 'colour scheme'. There are three colour schemes: Classic, STAN or Dark. The Mosos <CTG> Console should be re-started to view the change.

#### Cropping the CTG at the frame edges

The CTG can be cropped at the edges of the CTG frame when displaying and printing if the values are above or below the absolute threshold (0 and 100 mmHg for the Toco and 60 and 200 BPM for the FHR). Check the selection box if cropping of the graphic at the frame edges is desired.

#### Hide unidentified signals\*

Only check the selection box if the unidentified signal should not be shown. This means that a current CTG signal will not be shown on the screen as long as the patient is not connected. This setting will apply for all programs Mosos <CTG> Console.

*\*Please note; This functionality is no longer available from version 12.15.15.*

## Print text lines underneath CTG trace

'Print lines under CTG' is related to the printing of CTG recordings.

### *Notes*

When printing a CTG in Mosos <CTG> Console, it is possible to specify whether the notes should be printed underneath the CTG. This is a fixed setting.

### *Recordings*

In addition to the notes, it is also possible to print the recording lines underneath the CTG. Check the selection box if printing of the recording line must be possible.

### *Maternal parameters*

Idem recordings, if the measured values should be printed beneath the CTG.

## Alarm

This is where the standard alarm levels and time delays can be set.

### *Level in BPM*

The standard alarm level is set in these fields, expressed in Beats Per Minute. The following values are set as a default:

- Bradycardia: 100 bpm during the dilation period and 80 bpm during the expulsion period.
- Tachycardia: 180 bpm for both the dilation period and the expulsion period.

Set a different level by overwriting the default values, if desired.

### *Number of seconds*

The time delays are set in these fields. The alarm will start if the number of bpm is above or below the alarm level during the number of specified seconds. The standard setting is for:

- Bradycardia: After 10 seconds during the dilation period and after 5 seconds during the expulsion period.
- Tachycardia: After 5 seconds for both the dilation period and the expulsion period.

Set a different level by overwriting the default values, if desired.



By default, the alarm for Bradycardia/Tachycardia is turned on (for all locations). In order to turn it off for all locations, the check box must be deselected.

### *SpO2*

Set the SpO2 alarm for all CTG locations here. The alarm is turned off by default (unchecked). The default settings are 95% and 0 seconds. If desired, enter other values and then click on [Save]. The user can turn the alarm on/off for each location in Mosos <CTG> Console, under [Alarm settings].

## FHR signal loss

By using this function, the user can set whether an alarm should be sounded in the event of an FHR signal loss and an alarm notice (type: 'FHR signal loss') should be generated. The checkbox is checked by default.

The administrator can indicate in the two fields below this after how many seconds the FHR signal loss alarm should be sounded.

When this function is activated, an alarm notice (type: 'FHR signal loss') will be generated in the event of an FHR signal loss.

The standard settings are:

- Ultrasound (via CTG): after 30 seconds.
- Direct ECG (via cranial electrode): after 5 seconds.

Set a different level by overwriting the default values, if desired.

For more information about setting / dealing with alarm thresholds by the user, see chapter '[Mosos CTG, Mosos <CTG> Console, Alarm, Settings](#)'.



In Mosos <CTG> Console it is always possible – per recording – to deviate from the standard alarm level and time delay.

## CTG review

### Minimum duration (length)

Is related to the function of the same name in Mosos <CTG> Console. The default value is 1 minute. This means that unreviewed CTG recordings of 1 minute and longer are displayed in the overview of unreviewed CTGs and recordings shorter than 1 minute are not displayed. Set a different value, if desired (value '0' is permitted).

### Reviewing CTGs

It is possible to set up a warning to remind the user that a (periodic) review needs to be entered. 'Review CTG every.. minutes' can be set to indicate how frequently (in minutes) an optical signal must be given. When linking a patient, this is the default setting.

The time set here applies to all CTG locations. The user can change this amount of time for each location in Mosos <CTG> Console. In the '[Recording info](#)' screen.



If no review warning needs to be set, leave the field empty.


For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Console, CTG review](#)'.

## Maintenance; Locations

- [Creating a group](#)
- [Automatic removal from location overview when CTG stops](#)
- [Moving acquisition points/mobile station locations](#)
- [Deleting a group](#)
- [Editing names](#)
- [Automatically starting STV](#)


CTG recording locations (fixed and mobile) can be grouped in Mosos <CTG> Maintenance. This makes it possible to display data for each created group in Central Monitoring. It is also possible to automatically remove patients from each group once CTG recording has finished.

The list created in this manner corresponds to the Location selection lists in the 'Recording info' screen and in the location overview of <CTG> Console.

	<ul style="list-style-type: none"> <li>• All actions described below (creating/editing/deleting, etc.) are visible in Mosos CTG once Console/Central Monitoring have been restarted.</li> <li>• Once 'Location Maintenance' has been closed (by clicking on [Close]), it is no longer possible to make changes in Mosos &lt;CTG&gt; Maintenance. This is notified by the message 'Restart program to edit other settings' in the bottom-left of the screen. The user must close the program and restart it.</li> </ul>
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### Creating a group

1. Start Mosos <CTG> Maintenance and log in.
2. Click on the button [Location Maintenance] to open the 'Location Maintenance' screen.
3. All the created groups are shown under 'Location groups'. The available locations are shown under 'CTG Acquisition points'.

	<p>The 'Other' group is available by default. This contains all CTG acquisition points not classified in another group.</p>
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4. Click on the plus and minus signs to expand or hide the lists as required.
5. Select 'Location groups' and then click on [New].
6. Under 'Name', enter the name of the location group to be created.
7. State whether the patient is to be automatically removed after CTG recording is finished.

If yes, enter after how many minutes this is to happen.



Further information regarding '*automatic removal*' can be found in the next section.

8. Click on [OK] to create the group.
9. Locations (acquisition points) can now be added.
10. Open the 'CTG Acquisition Points' list and drag and drop the desired acquisition points to the 'CTG Acquisition Points' line in the group that has just been created.

If drag-and-drop does not work or is not possible, double-click on the acquisition point to be added in order to open the 'Edit location' screen. Select the group to which the acquisition point is to be added and click on [OK].



If the acquisition point concerns a mobile set-up, it should be listed next to the name of the acquisition point. If this is not the case, double-click on the acquisition point, and check the box next to 'This is a mobile station'. If this is not checked, it will be regarded as a fixed acquisition point.

11. Now add the locations of mobile stations to the created group (if required).
12. Select the line 'Locations of mobile stations' in the created group and click on 'New'. This opens the 'Edit location' screen.
13. Enter the name of the mobile station and click [OK].
14. To add another mobile station location, click again on [New], enter the name and click [OK]. Repeat this step until all locations have been added.




To change the order of the locations, select the location and click on the [Up] or [Down] button.

15. Click on [Save] to save the newly created location group and close the 'Location Maintenance' screen.

### Automatic removal from location overview when CTG stops


As soon as a recording has been completed, it is possible to have the woman automatically disconnected by Mosos <CTG> Console.

- Click *Never* in the option box if automatic disconnection is not desired. This is the default setting.
- Click *After* in the option box if automatic disconnection is desired and enter the number of minutes after which automatic disconnection should take place.

	<ul style="list-style-type: none"> <li>• The selected setting applies to all locations (outpatient clinic and hospital) within the created group. It is therefore recommended that the 'Never' setting be kept as the default setting unless the CTG system is used solely for outpatient recordings.</li> <li>• This option is not available for Remote Care locations.</li> </ul>
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### Moving acquisition points/mobile station locations

1. Acquisition point; Go to the 'CTG Acquisition Points' and double-click on the relevant item. Under 'Group', select the group to which the acquisition point is to be added and click on [OK].
2. Mobile station location; Go to the location group in which the location is listed and double-click on the relevant location (under the 'Locations of mobile stations'). Under 'Group', select the group to which the acquisition point is to be added and click on [OK].

	It is also possible to drag and drop mobile station locations to a different location group.
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3. Click on [Save] to apply the changes and close the 'Location Maintenance' window.

### Deleting a group

To delete a location group, the contents need to be deleted first.

1. Select the location group to be deleted.
2. Drag this group to the 'Other' location group.
3. Select the (empty!) location group to be deleted and click on [Delete]. This will delete the location group.
4. Click on [Save] to apply the changes and close the 'Location Maintenance' window. The changes have now been permanently applied.

### Editing names



The location names used in Mosos must be the same as those in the HIS. You should be changing the names in consultation with the administrator to prevent error messages in the HIS.

#### *Changing the name of a location group*

Select the name of the relevant location group and click on [Change]. Enter the desired name and click on [OK]. Click on [Save] to apply the changes and close the 'Location Maintenance' window.

#### *Changing the name of a CTG acquisition point*

In the 'CTG Acquisition Points' list, double-click on the item whose name is to be changed. Enter the desired name and click on [OK]. Click on [Save] to apply the changes and close the 'Location Maintenance' window.

#### *Changing the name of a mobile station location*

Go to the location group to which the mobile station location belongs and double-click on the name to be changed. Enter the desired name and click on [OK]. Click on [Save] to apply the changes and close the 'Location Maintenance' window.

### Automatically starting STV

It is possible to have the STV start automatically if a patient is connected to a location in Mosos <CTG> Console. A location group must be configured in the location administration for this.



This option is not available for Remote Care locations.

1. Follow steps 1 through 7 as described under '[Creating a group](#)' earlier in this chapter.



Tip: Give the group a name that indicates the 'Start STV automatically' function is enabled. For example: 'AutoSTV group'.



2. Place a tick next to 'Turn on STV by default after connecting a patient'.
3. Continue with step 8 as described under '[Creating a group](#)' earlier in this chapter.
4. For more information about how Mosos <CTG> Console works, refer to the chapter '[Mosos CTG, Console, CTG parameters](#)'.

## (Dis)connect and moving patient

### Mosos CTG; Connect a patient (with HIS)

- [Select](#)
- [Connect](#)
- [Quick Registration](#)
- [Recording information](#)
- [Additional information](#)

To connect a patient (to an online location) the following details are required: Patient number / surname or date of birth.

	It is the user's responsibility to connect the right patient to the right signal/recording!
	Does this concern a Remote Care patient (who is using e.g. PregnaOne®)? Then follow the instructions given in ' <a href="#">Mosos-CTG, Remote Care, PregnaOne</a> '.

#### Select

1. First select the desired location from the location overview where the system and CTG recording is expected (an online location).


2. Two options:

- Click on [Register patient] to display the patient selection screen.
- Click right mouse button and click [Connect patient].



3. Enter either Patient number / Name or Date of birth in the corresponding field and click [Search].



	When linking a patient who has not had any previous CTG recordings in Mosos <CTG> Console, the default time period for the CTG recording is 'ante partum'. The user can, if desired, change this to 'in durante partu' or 'post partum'. The CTG administrator can set another default value, e.g. depending on the type of location (mobile or fixed).
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## Connect


What happens after the selection depends on whether the patient's current pregnancy is

1. already known in the Mosos database or
2. the patient's current pregnancy is not yet known in the Mosos database.

### Known?

The other fields in the window are filled automatically. Always check the search result. Click on [OK] if this is the patient in question.

The following question may be asked for purposes of verification: "Does this concern the pregnancy with EDD xx-xx-xxxx?".

 This question is not intended to determine whether the full-term date is correct. This can be modified if necessary in 'Patient data'.


[Yes]: Click on [Yes] if the pregnancy still exists. The patient is now connected to the selected location.

[No]: Click on [No] to indicate that the pregnancy no longer exists. A new window is then opened in order to create a new pregnancy.

[Cancel]: Click on [Cancel] to return to the patient selection screen.

### Not known?


1. A question will be asked whether a new patient should be entered.
2. Click [Yes].
3. The 'Enter patient' window will open.
4. Fill the (required) fields and click [OK].
5. The patient is now connected to the selected location.

 When disconnecting the patient it is required to enter the Current pregnancy number and the Estimated date of delivery. For more information, see chapter '[Mosos - CTG, \(Dis\)connecting and moving, Disconnecting](#)'.

## Quick Registration

When the 'Quick Registration' function is used, connecting and disconnecting a patient in

Mosos <CTG> Console is no longer necessary in order to enter the AT date and/or the gravidity number. This is a setting that applies to all locations and cannot be changed by the user.

	<ul style="list-style-type: none"> <li>• This concerns patients who are not yet in the Mosos database or patients with a new pregnancy.</li> <li>• The Quick Registration function should not be used in combination with the P tabs and/or Mosos &lt;O&gt;. This setting is especially useful in Mosos &lt;CTG&gt; Console.</li> </ul>
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## Recording information

Once the patient is connected, the 'Recording information' window opens. The data in this window are related to the saving and identification of the CTG (CTG registration line). The fields may therefore not be empty.

The 'Recording Information' screen can also be opened (and its contents amended, if required) in Mosos <CTG> Console by:

- selecting the relevant patient in the list and then clicking on the [Recording info] button or



- selecting the relevant patient in the list and then right-clicking on it. A pop-up menu will appear, in which 'Recording information' can be selected.

### *Patient*

Name. For review.

### *PregnaOne PIN code*

If the client is using Mosos Remote Care PregnaOne, then this field is visible and the PIN code is displayed that the patient needs to log in to the Pregnabit Pro device. For more information about Remote Care and PregnaOne, see the '[Mosos - CTG, Remote Care, PregnaOne](#)' chapter.

### *Location group*

Shows the group name to which this location is linked.

### *Location*

If this is a mobile station, you can use the selection list to specify the room number where the mobile station is located. The selection is also incorporated into the location overview.

### *Stage*

The default value is 'Ante partum' (with a patient with no previous CTG recordings). This can be adjusted via the selection list. The administrator can set a different default value (in CTG Maintenance), for example depending on location.

### *Care*

Can be adjusted via the selection list (high or normal risk). For type 'high-risk', a blue marking will be displayed next to the location name in Console/Central Monitoring.

### *Reviewer*

You can use the selection list to find the reviewer. If no reviewers are known in the Mosos system, then the list will be empty. In this case choose 'Not assigned'.

### *Review CTG every 'x' minutes*

This field is for entering how frequently (in minutes) an optical signal must be given to remind the user that a review needs to be entered. When linking a patient, this is the default setting.

## Additional information

### *HIS connection*

If a HIS connection has been installed, it is impossible to manually enter any personal patient data into the Mosos database. The only exception occurs during loss of contact with the hospital network (in case of failure of the program Mosos Communication Server). See : ['Mosos - Base, Start, TEMP numbers'](#).

### *Licences*

The number of CTG traces that can be displayed concurrently depends on the number of licenses. If 10 licenses have been purchased, a maximum of 10 traces can be displayed at any one time. If this number is exceeded, the following message\* is displayed (in the CTG trace): All CTG licences are in use. Report this to the Mosos application manager.



This message is displayed as soon as a tracing signal is received, regardless of whether or not a patient is connected.



### *What to do?*

- Wait until one of the current tracings is complete and the patient has been disconnected. Then connect the next patient and start the trace.
- Report the incident to the system administrator so they may determine whether extra licenses need to be purchased.

## Mosos CTG; Connect a patient (without HIS)\*

- [Select](#)
- [Connect](#)
- [Quick Registration](#)
- [Recording information](#)
- [Additional information](#)

To connect a patient (to an online location) the following details are required: Patient number / surname or date of birth.

	It is the user's responsibility to connect the right patient to the right signal/recording!
	Does this concern a Remote Care patient (who is using e.g. PregnaOne®)? Then follow the instructions given in ' <a href="#">Mosos-CTG, Remote Care, PregnaOne</a> '.


### Select

1. First select the desired location from the location overview where the system and CTG recording is expected (an online location).
2. Two options:
  - Click on [Register patient] to display the patient selection screen.
  - Click right mouse button and click [Connect patient].



3. Enter either Patient number / Name or Date of birth in the corresponding field and click [Search].



	For manually numbering patients, it is advisable to use the number with which the patient is known in the hospital information system.
---	--

4. If the number is **known** in the Mosos database, then the other fields are automatically filled in. If the number is **not known** in the Mosos database, then the system will display the following question: No patient found with search field. Do you want to enter a new patient? Yes/No.

- Click on [Yes] if this is a new patient to be entered or click on [No] to return to the patient selection screen.

## Connect

What happens after the selection depends on whether the patient's current pregnancy is

- already known in the Mosos database or
- the patient's current pregnancy is not yet known in the Mosos database.

### Known?

The other fields in the window are filled automatically. Always check the search result. Click on [OK] if this is the patient in question.

The following question may be asked for purposes of verification: "Does this concern the pregnancy with EDD xx-xx-xxxx?".



This question is not intended to determine whether the full-term date is correct. This can be modified if necessary in 'Patient data'.

[Yes]: Click on [Yes] if the pregnancy still exists. The patient is now connected to the selected location.

[No]: Click on [No] to indicate that the pregnancy no longer exists. A new window is then opened in order to create a new pregnancy.

[Cancel]: Click on [Cancel] to return to the patient selection screen.

### Not known?


- A question will be asked whether a new patient should be entered.
- Click [Yes].
- The 'Enter patient' window will open.
- Fill the (required) fields and click [OK].
- The patient is now connected to the selected location.



When disconnecting the patient it is required to enter the Current pregnancy number and the Estimated date of delivery. For more information, see chapter '[Mosos - CTG, \(Dis\)connecting and moving, Disconnecting](#)'.

## Quick Registration

When the 'Quick Registration' function is used, connecting and disconnecting a patient in Mosos <CTG> Console is no longer necessary in order to enter the AT date and/or the gravidity number. This is a setting that applies to all locations and cannot be changed by the user.

	<ul style="list-style-type: none"> <li>• This concerns patients who are not yet in the Mosos database or patients with a new pregnancy.</li> <li>• The Quick Registration function should not be used in combination with the P tabs and/or Mosos &lt;O&gt;. This setting is especially useful in Mosos &lt;CTG&gt; Console.</li> </ul>
---	---

## Recording information

Once the patient is connected, the 'Recording information' window opens. The data in this window are related to the saving and identification of the CTG (CTG registration line). The fields may therefore not be empty.

The 'Recording Information' screen can also be opened (and its contents amended, if required) in Mosos <CTG> Console by:

- selecting the relevant patient in the list and then clicking on the [Recording info] button or



- selecting the relevant patient in the list and then right-clicking on it. A pop-up menu will appear, in which 'Recording information' can be selected.

### *Patient*

Name. For review.

### *PregnaOne PIN code*

If the client is using Mosos Remote Care PregnaOne, then this field is visible and the PIN code is displayed that the patient needs to log in to the Pregnabit Pro device. For more information about Remote Care and PregnaOne, see the '[Mosos - CTG, Remote Care, PregnaOne](#)' chapter.

### *Location group*

Shows the group name to which this location is linked.

### *Location*

If this is a mobile station, you can use the selection list to specify the room number where the mobile station is located. The selection is also incorporated into the location overview.

### *Stage*

The default value is 'Ante partum' (with a patient with no previous CTG recordings). This can be adjusted via the selection list. The administrator can set a different default value (in CTG Maintenance), for example depending on location.

### *Care*

Can be adjusted via the selection list (high or normal risk). For type 'high-risk', a blue marking will be displayed next to the location name in Console/Central Monitoring.

### *Reviewer*

You can use the selection list to find the reviewer. If no reviewers are known in the Mosos system, then the list will be empty. In this case choose 'Not assigned'.

### *Review CTG every 'x' minutes*

This field is for entering how frequently (in minutes) an optical signal must be given to remind the user that a review needs to be entered. When linking a patient, this is the default setting.

## **Additional information**

### *Patient number*

It may happen that a patient has not yet been assigned a number in the hospital information system upon entering the delivery room. In this case, start the CTG recording anonymously (without connecting the patient). You can connect the patient as long as the CTG recording is running.

If you do not succeed in connecting the patient while the CTG recording is running, then the CTG recording is saved anonymously (note the date, start time, duration, location and preferably also the unique ID number of the recording and, of course, the patient data).

It is possible to move this anonymous CTG to the patient's record later. For more information see '[Mosos - CTG, Mosos <CTG> Console, Anonymous CTG](#)'.

### *Licences*

The number of CTG traces that can be displayed concurrently depends on the number of licenses. If 10 licenses have been purchased, a maximum of 10 traces can be displayed at any one time. If this number is exceeded, the following message\* is displayed (in the CTG trace): All CTG licences are in use. Report this to the Mosos application manager.



This message is displayed as soon as a tracing signal is received, regardless of whether or not a patient is connected.

*What to do?*

- Wait until one of the current tracings is complete and the patient has been disconnected. Then connect the next patient and start the trace.
- Report the incident to the system administrator so they may determine whether extra licenses need to be purchased.

*\*This does not mean a temporary network failure, but default working without a HIS connection. In case of a temporary network failure, the emergency procedure will start. During a temporary network failure, TEMP numbers should be used for new patients. For more information, see chapter '[Mosos - CTG - Emergency procedure](#)' and '[Mosos - Base, Start, TEMP numbers](#)'.*

## Mosos CTG; Incorrect link

- [Transfer](#)
- [Additional information](#)

Fix incorrect link: If a CTG recording is accidentally added to the record of another woman. This can occur when the user selects the wrong patient or when the user does not free up the location in the location overview in time (see chapter '[CTG, \(Dis\)connect and moving patient, Disconnect](#)').

In this case it is possible to move the recording to the record of the correct patient at a later date. The required authorisation level for moving a CTG recording is: Mosos CTG Administrator.

Always start at the source (= 'incorrect' patient).

### Transfer

1. The functional application administrator logs in to the Mosos <CTG> console by pressing [User login]. Select the offline location in the location overview (the lowermost 'empty' line).



2. Click on [Register patient] to display the patient selection screen, enter the number of the 'incorrect' patient in the 'Patient number' field. Click the Search button.



3. The other fields in the window will be filled in automatically. Always check the search results. Click on [OK] if this is the correct patient. If necessary, select the number of the desired pregnancy (only applies if two or more pregnancies have been entered in the Mosos database for this patient). The patient is now connected to the offline location.

4. Click on [Review/print CTG's] and scroll through the recordings until you have found the desired recording.



5. Click on [Reg. patient...].

6. The patient selection screen is opened. Then select the patient associated with the recording to be linked.
7. Select the number of the pregnancy associated with the recording to be linked (only applies if two or more pregnancies have been entered for this patient in the Mosos database).
8. After confirmation the following question will be asked: If the CTG recording is linked to this patient, the related term is: xxw xd. Are you sure this recording should be linked to patient 'name'?
9. Click [Yes] to move the CTG recording to the selected patient and pregnancy. The system returns to the location overview; the target patient is now in the offline location. If you select [No] the selected pregnancy will not be linked and you will be taken back to the patient selection screen.



- Automatic notes are generated for purposes of verification. The notes are added to the notes overview. A note is added to the source pregnancy and to the target pregnancy. The content of the automatic notes can only be read; it is impossible to edit them in any way.
- It is recommended that you click on [User login] after moving CTGs. This logs the administrator out, preventing improper use of his/her authorisations.


### Additional information

- In rare cases a patient may have several records in the Mosos database with CTG recordings in several records. Here too the procedure to move CTG recordings can be employed. The objective is to empty one of the two records (so that it can be deleted) without losing the CTG material.
- Only CTG recordings can be moved in this manner. All other data that were entered into the record of another patient accidentally cannot be moved this way. In this case the data must be removed from the record manually. And it will have to be entered in the correct record manually as well. Be very careful to maintain security and always first make a hard copy (printout of the data on paper).

## Mosos CTG; Disconnect

- [Current gravidity and the EDD are known in the Mosos database](#)
- [Current gravidity and the EDD are unknown in the Mosos database](#)
- [Quick Registration](#)
- [Additional information](#)


If the patient has definitively left the online location in the location overview it is important to disconnect this patient so that the location is freed up for the next patient (thus preventing incorrect linking). Patients are manually disconnected. Two options:




Does this concern a Remote Care patient (who is using e.g. PregnaOne®)? Then follow the instructions given in '[Mosos-CTG, Remote Care, PregnaOne](#)'.

### Current gravidity and the EDD are known in the Mosos database

1. Select the patient to be disconnected in the location overview.
2. Click [Disconnect patient].




Mosos <CTG> Console - [question]

 Do you really want to remove this patient from the location overview?


3. Click [Yes] to free up this location or click [No] to keep this patient connected.

### Current gravidity and the EDD are unknown in the Mosos database

1. Select the patient to be disconnected in the location overview.
2. Click [Disconnect patient].



Mosos <CTG> Console - [question]

 Do you really want to remove this patient from the location overview?

3. Click [Yes] to free up this location.
4. The window 'Edit patient data' will open.
5. Enter the estimated date of delivery.

6. Mosos automatically calculates the gravidity automatically. This is shown in the 'Current pregnancy' field, followed by a '?'. Remove the question mark if the number is correct or replace the question mark and the wrong number with the correct number. The number must be unique.

7. Click [OK].

## Quick Registration

When the 'Quick Registration' function is used, connecting and disconnecting a patient in Mosos <CTG> Console is no longer necessary in order to enter the AT date and/or the gravidity number. This is a setting that applies to all locations and cannot be changed by the user.



- This concerns patients who are not yet in the Mosos database or patients with a new pregnancy.
- The Quick Registration function should not be used in combination with the P tabs and/or Mosos <O>. This setting is especially useful in Mosos <CTG> Console.

## Additional information

### *Estimated date of delivery (EDD)*


If the full-term date is unknown, then enter the current date, for example. It is possible to correct the full-term date later in the 'Patient data' function.

### *Current pregnancy*

If the number of the current pregnancy is not known exactly, just fill it with a value. It is possible to correct the number later in the 'Patient data' function.

## Mosos CTG; Moving a patient

It is possible to move a patient who has already been connected to a different location in the overview.



This does not apply to Remote Care patients (who are using e.g. PregnaOne®). These patients cannot be moved.

1. Select the patient to be moved in the location overview.
2. Click and hold down the left mouse button.
3. Move the selection to an empty location in the overview and let go of the mouse button.
4. Once the patient is connected, the 'Recording information' window opens. The data in this window are related to the saving and identification of the CTG (CTG registration line). The fields may therefore not be empty.

The 'Recording Information' screen can also be opened (and its contents amended, if required) in Mosos <CTG> Console by:

- selecting the relevant patient in the list and then clicking on the [Recording info] button or



- selecting the relevant patient in the list and then right-clicking on it. A pop-up menu will appear, in which 'Recording information' can be selected.

### *Patient*

Name. For review.

### *PregnaOne PIN code*

If the client is using Mosos Remote Care PregnaOne, then this field is visible and the PIN code is displayed that the patient needs to log in to the Pregnabit Pro device. For more information about Remote Care and PregnaOne, see the '[Mosos - CTG, Remote Care, PregnaOne](#)' chapter.

### *Location group*

Shows the group name to which this location is linked.

### *Location*

If this is a mobile station, you can use the selection list to specify the room number where the mobile station is located. The selection is also incorporated into the location overview.

### *Stage*

The default value is 'Ante partum' (with a patient with no previous CTG recordings). This can be adjusted via the selection list. The administrator can set a different default value (in CTG Maintenance), for example depending on location.

### *Care*

Can be adjusted via the selection list (high or normal risk). For type 'high-risk', a blue marking will be displayed next to the location name in Console/Central Monitoring.

### *Reviewer*

You can use the selection list to find the reviewer. If no reviewers are known in the Mosos system, then the list will be empty. In this case choose 'Not assigned'.


### *Review CTG every 'x' minutes*

This field is for entering how frequently (in minutes) an optical signal must be given to remind the user that a review needs to be entered. When linking a patient, this is the default setting.


5. Click on [OK] to close the window.

# Mosos <CTG> Console

## Button summary Mosos <CTG> Console

 Access to buttons depends on authorisation, settings and in which part of the program the user is working.




[User login]  
Chapter '[Mosos - Base, Start, Login and closing](#)' 

[Register patient]  
Chapter '[Mosos - Base, Start, Searching for a patient](#)' 

[Patient data]  
Chapter '[Mosos - Base, Start, Data entry and modifying](#)' 

[Notes]  
Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)' 

[Create memorandum]  
Chapter '[Mosos - Base, Start, memorandum](#)' 

When a memorandum has been created, this button  will be replaced by the following button:

[Memorandum]  
Chapter '[Mosos - Base, Start, memorandum](#)' 

[Partogram]  
Chapter '[Mosos - CTG, Partogram](#)' 

[Location overview and CTG]

Chapter '[Mosos - CTG, Mosos <CTG> Console, CTG Console](#)'.



[Recording information]

Chapter '[Mosos - CTG, \(Dis\)Connect and moving patient, Selecting and connect with HIS](#)'.



Capítulo «*Mosos - CTG, (Des)vincular y trasladar, Vincular con el sistema de información del hospital*».

[Review / Print CTG's]

Chapter '[Mosos - CTG, Mosos <CTG> Console, Printing notes and recordings](#)'.



[Remote Care CTG's]

Chapter 'Mosos - CTG, Mosos <CTG> Console, Remote Care' [PregnaOne](#).

[Overview of unreviewed CTGs]

Chapter '[Mosos - CTG, Mosos <CTG> Console, Overview unreviewed CTG's](#)'.



[CTG Overview]

Chapter '[Mosos - CTG, Mosos <CTG> Console, CTG Console](#)'.



[Alarm settings]

Chapter '[Mosos - CTG, Mosos <CTG> Console, Alarm, Alarm settings](#)'.



[Alarm sound (disable alarm sound)]

Chapter '[Mosos - CTG, Mosos <CTG> Console, Alarm, Alarm settings](#)'.



Depending on usage, the following buttons are or are not visible:

[Alarm sound (enable alarm sound)]

Chapter '[Mosos - CTG, Mosos <CTG> Console, Alarm, Alarm settings](#)'.



[Alarm sound (enable alarm sound)].

Chapter '[Mosos - CTG, Mosos <CTG> Console, Alarm, Alarm settings](#)'.



[Show maternal heart rate]

Chapter '[Mosos - CTG, Mosos <CTG> Console, Maternal heart activity](#)'.



[Show STAN]

Chapter '[Mosos - CTG, Mosos - CTG - STAN integration, Display in CTG Console](#)'.



[Show STV ]

Chapter '[Mosos - CTG, Mosos <CTG> Console, CTG parameters](#)'.



[Close]

Chapter '[Mosos - Base, Start, Login and closing](#)'.



## Mosos <CTG> Console; Screen overview

- [Location overview](#)
- [Background colour](#)
- [Signal derivation](#)
- [Online and offline location lines](#)
- [Most recent notes of the selected location](#)
- [Dual screen and CTG only](#)
- [Contents of CTG strip](#)
- [Actual values](#)
- [Sizing screens](#)
- [Split FHR](#)
- [Export CTG data](#)

After the login procedure, the Mosos <CTG> Console program opens in the Location overview function and can then be operated. The layout and use of the Location overview function is described below.



[Location overview and CTG] displays one of the following images:

- Location overview
- Dual screen
- Only CTG

### Location overview

The location overview displays an overview of the current occupation of the locations where the system expects a CTG. It is easiest to link and unlink patients from this overview and continue navigating through the program.

An overview is displayed containing used and unused locations (Loc.) in the upper-most frame underneath the tool bar. It also displays the following columns: Patient number, Patient name, Age, G/P, Review by, Duration of pregnancy (Pg. duration), Time period (T), Mode, Duration and C/10min.

If more locations have been installed than fit in the frame, then the remaining locations can be viewed using the vertical slide bar.



More or fewer locations can be installed per workstation. Mobile workstations only contain one location, for example. Each workstation at a central station often contains an overview of all locations.

*Room / Location - Loc.*

Contains the (abbreviated) name of the location where the system expects a current CTG.

*Used location*

The name of the location is displayed in black text. Patients can be (un)linked and all data such as parturition notes can be edited.

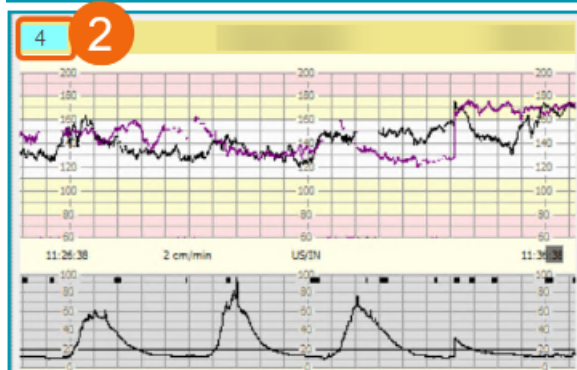
*Unused location*


The name of the location is displayed in grey text. Patients cannot be (un)linked from this Mosos workstation. Data cannot be edited. You can, however, see that a patient is linked – from another Mosos workstation. Entered data can be viewed.

*Colours*

Light blue: The recording is marked as high risk (1). Use the Recording info window (is displayed when linking the patient) to select the type of CTG, high risk or normal risk (normal risk is standard). In Central Monitoring (2), a high-risk marking can be recognised by the blue marking behind the location name.

Room	Patient number	Patient name	G P	Gestational age	S	Mode
1	1215002		G2?		AT	—/—
2						—/—
3						—/—
4	306130		G1 P0		AT	—/—
5						—/—
6	1215001		G1		AT	—/—
7						—/—



 Which locations are used and which are not is set according to the wishes of the hospital or supplier. The (abbreviated) names of the locations can be changed by the functional application administrator using the Mosos <CTG> Administration program. A location name can also be the name of a mobile station.

*Patient number*

Unique ID number by which the patient is known in the Mosos database. Usually this number is the same as the Patient hospital number.

### *Patient name / Age / G and P*

By which the patient is known in the Mosos database.

### *Review by*

Name of reviewer.

### *Gestational age*

Is automatically populated with the calculated gestation based on the EDD and current date - it is expressed in the number of weeks and days.

### *Stage*

Populated with Ante partum, intrapartum or Post partum. This is based on the information entered earlier in the 'Time period' field in the Recording info window.

### *Method*

Is automatically filled in with the abbreviation of the used signal derivation for recording the fetal heart rhythm and the uterine activity.

### *Duration*

Duration of the CTG recording.

### *C/10min*

The number of contractions per 10 minutes.



It is possible to display all identifying patient information (in the location overview) in anonymous fashion when no user is logged in. For more information, refer to chapter '[Mosos-CTG, Admin, Console \(login\)](#)'.

## Background colour

The background colour of the FHR strip contains (if set to coloured theme) smaller strips with the following colours: pink (alarm), yellow (attention), and white (normal).

If the colour theme is Dark or Classic, these colours don't show. The white strip is the bandwidth of a normal FHR. The corresponding values, where the white and yellow strips touch, are adjustable by the administrator.

When Dark / Classic theme is set, the bandwidth is shown by two horizontal lines. The toco strip has a light grey background colour (if set to coloured theme). Dark / Classic theme use the standard background colour of the CTG strip.

## Signal derivation

-/- : Cardiotocograph not connected or not operational.

OF : No signal.

DI : Direct derivation with the help of an electrode.

US : Ultrasound transducer.

IN : Intrauterine pressure measurement.

EX : Extrauterine pressure measurement. The completion time of the CTG recording is displayed under 'Duration', expressed in hours and minutes.

## Online and offline location lines

### Online location

This means a location where the system is also expecting a CTG recording. Online locations always have a location name and a symbol indication in the Mode column. In principle, only patients with an actual pregnancy can be linked.

### Offline location

Usually there is also an offline location line (at least one per system but not necessarily at all workstations). That is the last line in the location overview. The system cannot receive a CTG signal using this location. This location line also has no location name. The offline location is used to:

- View and/or edit data of a patient who is not physically present with the goal of keeping the other locations free for creating CTG recordings.
- View data of a previous pregnancy / parturition.
- Search for, view and/or print archived recordings.
- Search for and/or print anonymously created recordings.
- Move recordings.
- To view deleted patient records. Use the checkbox “also display deleted patients” in the right bottom corner of the screen “Select patient”. This checkbox is only available for the offline location.
- If partogram is used, then it is also possible to search for a partogram from a previous pregnancy via the offline rules.



In order to be able to link a patient at the offline location line, the Mosos database must contain pregnancy data. If there are data from several pregnancies in the Mosos database, then these are displayed in an overview, sorted by the full-term date. Select the desired pregnancy from the displayed overview.

## Most recent notes of the selected location

Date	Time	Initials	Content
13-04-2018	13:37		Recording 17_4 (A). Room: VK17. Length: 0h 06m
13-04-2018	13:37		Perfect signal quality

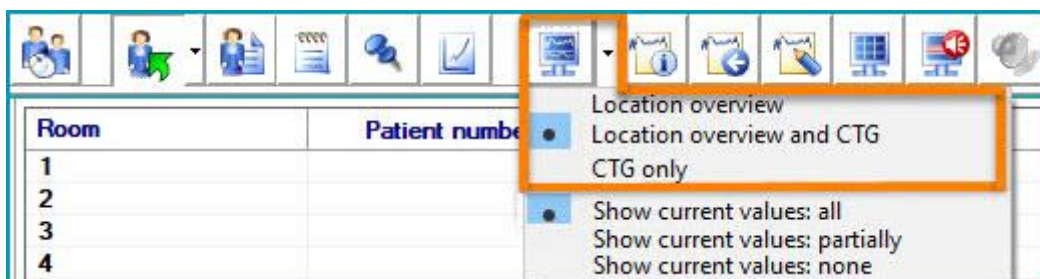
This is where you will find the most recent notes of the patient at the selected location regarding maternal parameters, CTG registration lines and created notes in 'Pregnancy report notes'.

If desired, the content of this screen section can be hidden by selecting the [x] button. Select the [...] button to show the content again.

## Dual screen and CTG only

### Dual screen

A part of the location overview is displayed as well as the last part of the current CTG signal of the selected location.



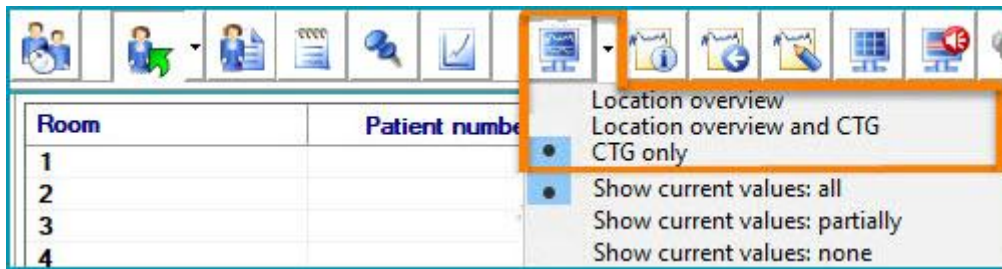
The actual values can be displayed. For more information, refer to the section "[Actual values](#)" further along in this chapter.

The dual screen is useful when you want to keep a current CTG visible on the screen while simultaneously using another function in the Mosos <CTG> Console such as the "[Notes](#)" function.

### Only CTG

The actual CTG for the selected patient will be displayed at full screen width.

The actual values can be displayed. For more information, refer to the section "[Actual values](#)" further along in this chapter.



## Contents of CTG strip

### *Aspect*

cm/min.

### *Current signal*

Flashing black square.

### *Fetal movement pattern*

The fetal movements are displayed in green squares above the uterine activity curve.

### *Maternal parameters*

When available and in use, the times the maternal non invasive blood pressure and oxygen saturation are measured are displayed with yellow and green triangles, respectively, underneath the curve for the FHR. The associated values are automatically integrated and displayed above the signal and in the content of the 'Pregnancy report notes'.

### *Event notes and markers*

A so-called marker can be forwarded by some CTG devices (including STAN<sup>®</sup>). For example, a certain point in the CTG recording can be marked by pressing a button. A note can also be added to this marker if desired. From now on, these notes/markers (CTG and STAN) will be forwarded to Mosos. In the recording, the notes are visible as blue cells (1) and the STAN markers (2) also display an M (marker) in the cell. The notes are added as a "Midwifery note" in the notes overview.



### *Pregnancy report notes*

The time the notes were created can be recognised by the light yellow coloured vertical squares underneath the curve for the uterine activity. The text of the note is displayed by means of a tool tip. To show the tool tip, position the mouse pointer on the square; after a

few seconds the tool tip is displayed automatically. You can also edit or delete a note from here. Position the mouse pointer on the square and click on the note to open it.



By hovering\* over a marking (note / ST event / maternal parameter / coincidence), the accompanying information will appear (in a tool tip).

\* *hovering*: moving over the image / text with the mouse.

### Alarm

The alarm levels can be recognised by the red horizontal lines in the graph in front of the FHR. See '[Alarm settings](#)' for the function and operation of this function.



The basal heart rhythm strip is set to 110 - 160 bpm as a standard (for UK, NICE Guideline 2007). In the 'Classic' view this can be identified by the bold green lines in the graphic. But if desired the strip can also be set to another rate (by supplier).

### Locking operation

In order to prevent any unauthorised use of the software by the patient herself or her visitors.

### Before leaving the room

Click on [User login]. This will activate the login procedure. Using a setting (in Console Maintenance), the current CTG recording can be retained in the background so that the current CTG remains visible for the patient herself. The patient is not familiar with the login procedure / password and without this knowledge the software cannot continue to be operated.



When operation of the program is locked, the pop-up screen 'User login' will appear in the middle of the screen. This may be distracting. If preferred, this pop-up screen can be manually dragged, for example to the lower part of the screen. This tip is only valid for Mosos <CTG> Console, not for other opened Mosos modules.

### Actual values


The actual values can be displayed if presentation in "Dual screen" or "CTG only" is selected. The actual values can be displayed partially / as a whole, or can be hidden.

1. Select the relevant patient and adjust the presentation of the CTG to "Dual screen" or "CTG only".

2. Click on the arrow to the right of the button [Location overview and CTG].



3. Select one of the options: Display actual values: all / partially / none.




The selected option applies to all locations.


The measured values of the fetal heart rhythm and the pressure (FHR1 / FHR2 / Toco / STV) are displayed here.

The colour indicates the signal quality as measured by the cardiotocograph: green (good quality), yellow (moderate quality), grey (not connected) or red (no signal).


142 <span style="color: green;">●</span>	FHR 1 142 (US) <span style="color: green;">●</span>
- <span style="color: grey;">●</span>	FHR 2 - (OF) <span style="color: grey;">●</span>
15 <span style="color: green;">●</span>	Toco 15 (EX) <span style="color: green;">●</span>
<b>10.1</b>	STV 1 <b>10.1 ms</b>
70 <span style="color: green;">●</span>	MHR 70 (PU) <span style="color: green;">●</span>
96.5%	SpO2 96.5%
95/62	NIBP 95/62



When saturation of the patient is shown at the actual values, this value does not reflect the actual data. Depending on the settings of the CTG device, the signal is sent to Mosos. This can be every 2 to 5 minutes. For the correct settings, consult the manual of the CTG device.



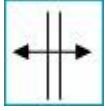
The value will become blurred over time to emphasise the fact that the displayed SpO2 value is no longer up-to-date. The blurring of the value happens in 2 phases (can be set by the supplier). The standard setting is that the first blurring becomes visible after 20 seconds and the second blurring after 60 seconds.



Depending on the options of the CTG machine, the MHR / SpO2 and/or blood pressure can also be displayed.

## Sizing screens

The width of the CTG window in the dual screen can be manually adjusted by moving the dividing line.



Position the mouse pointer on the left edge of the CTG window so that the sizing symbol becomes visible. Hold down the left mouse button and drag the dividing line between the two windows to the left or to the right. The columns in the location overview are 'pressed into each other' – to the extent that this is possible – with the exception of the Location and Patient number columns.

## Split FHR


This option is available when a signal arrives at the FHR2 entrance of the CTG device (for a twin pregnancy). If a check mark is placed before 'Split FHR' both heart rhythms will be shown separate in two CTG strips (below each other), rather than over each other in one strip. When no check mark is placed the two signals will show in the same FHR strip. This option is selectable per location.

The FHR can be split for an ongoing recording, but also when looking back at stored recordings.

There are three ways of splitting the FHR:

1. Select the relevant patient. Click on [Options] in the menu bar and place a check mark before "Split FHR".
2. Double click on the relevant CTG recording.
3. Click on the arrow next to the button [Location overview and CTG] and place a check mark before "Split FHR".

Undo FHR split? Uncheck the box or double-click again in the corresponding CTG registration.



There may be a special character, a '?', displayed as a result of coincidence in a FHR1 and FHR2 that isn't separated. This character will appear above the CTG signal. If the cursor is held above the question mark, the following text will appear: Coincidence is detected.

## Export CTG data

It is possible to export CTG data to a .CSV file. Whether or not this option is available depends on the program (syspar) settings.

An exported CSV file will be opened automatically using Microsoft® Excel®, for example, if this is installed on the workstation.

The button [CSV file] is available in the '[Review and print CTGs](#)' function.

### Procedure in Mosos <CTG> Console

1. Select the relevant patient in Mosos <CTG> Console. If there is a running CTG recording, then that is an online location. If this concerns a patient without running CTG, then the patient can be linked to the offline location.
2. Click on [Review/print CTG].



3. Click on the button [CSV file ...] and the file is generated automatically.
4. The file can then be edited/saved by the user.



Every four lines (in the file) jointly represent 1 second of CTG recording.

5. Click on [Close] to close 'Review CTGs'.



The 'Review CTGs' function is available in multiple Mosos programs, such as Mosos <P> and in Course, for example. For more information, see chapter '[Mosos CTG, Console, Printing notes / recordings](#)'.

## Mosos <CTG> Console; Show a CTG

### Reviewing from Pregnancy Report Notes

It is possible to view a CTG from the pregnancy report notes. Select the desired registration line from the pregnancy report and click on the [Show CTG] button; the 'Review CTGs' window will open and the selected recording displayed.



From this screen it is possible to review a previously and/or subsequently created CTG and to evaluate it, if desired (evaluation is only possible if you have sufficient authorisation). It is also possible to move a CTG from this screen but only under certain conditions, and provided that the currently logged-in user has sufficient authorisation to do so. For more information, see chapter '[Incorrect link](#)'.



Double-clicking on the respective registration line from the content will immediately open the 'Review CTGs' window.

### Consulting the CTG archive

1. Open Mosos <CTG> Console and log in.
2. Connect the patient offline (if the patient has several pregnancies on record, then a pregnancy must also be selected).
3. Click on [Review/print CTG's].



4. The 'Review/print CTGs' window is opened and the requested recording is displayed. If there are several recordings, use the [previous CTG] and [next CTG] to scroll through them.

## Mosos <CTG> Console; Printing notes / recordings

- [Printing CTG recordings](#)
- [Select and print notes](#)
- [Interim summary](#)
- [Printing an overview of open orders](#)
- [Printer selection](#)

### Printing CTG recordings

You can print CTG recordings from two functions:



[Review and print CTGs] or



[Report notes].

The 'Review and print CTGs' function is only available if a patient is linked to the selected location.



Use the “Review CTGs” screen to indicate that the notes/assessments, ST data, STV calculation and/or split FHR should be displayed in the print-out.

### From the button bar

By default, the last CTG recording is displayed first. With the buttons [Previous] and [Next] it is possible to browse through the recordings. If the recording is too long to fit the screen, the horizontal scroll bar can be used to display the rest of the recording. The recording information is also displayed for each CTG.

The following buttons can be seen in the screen:

[Register patient]

Intended for moving a CTG to another patient. This is only visible if the currently logged-in user also has the necessary authorisation and if the patient is linked offline. See also '[Incorrect linking](#)' or '[Anonymous CTG](#)'.

[Review]

This opens an overview table with already entered evaluations. For entering and editing evaluations: see '[CTG evaluating](#)'.

[Print]

This shows you your printing options. You can use the selection lists to determine the layout

of the printout.

- The '1 / 2 / 3 track' option: You can print out one or more CTG strips in horizontal A4 format. Notes (including the maternal parameters and evaluations) can be printed below the CTG, if desired, by placing a tick in the box 'Notes/evaluations under CTG'. The times at which the notes were entered will then be printed vertically in the CTG strip, in the tocograph section. Note: The single or double track option is only available in the event of STAN<sup>®</sup> integration. The single or triple track option is available without STAN.
- The 'Summary' option: A summary is printed out as a 1-strip CTG of one hour and with a speed of 1cm/min. At the bottom of the CTG printout there is enough room to make notes, which can then also be printed out (horizontally) with the CTG by default. For long recordings you can use the selection list to determine which parts should be printed out:
  - In full\*
  - First part
  - Last part
  - Part shown

*Min.*

In the 'Min.' (minutes) field, the system automatically shows how many minutes of the CTG will be printed out and the pages required for this (A4 format) are displayed in the 'Pages' field.

*Notes / Print reviews beneath CTG*


If this option has been ticked, the notes made for the partus report will be printed under the CTG. Only the assessments that were recorded during the recording will be printed. (Maternal measurements: It must be specified in Admin that these will be printed).

[OK]

Press [OK] to print the CTG or [Cancel] to return to the previous screen without printing the CTG.

[Close]

Press [Close] to close the 'Review and print CTGs' function.



If multiple printers are available, then a printer can be selected from the list via 'Select a printer'.


**From pregnancy report**

It is possible to look into a recording and print it directly from the pregnancy report.


1. Select a patient and open the pregnancy report.



2. Select a registration line in the overview.



There must have been at least one recording and the filter button [Recordings] must be active.



3. Two possibilities:

- Show CTG: Click to open the recording in a pop-up screen. Here it is possible to review and print.
- Print recording: Click to open the recording in a pop-up screen. Here it is possible to print.



4. See '[From the toolbar](#)' above for more information.

### Select and print notes

The different notes can be printed separately or together. The sorting is time and date.

A user legend can be printed separately and mentions besides the abbreviated names (note by and by order of) the full names of the users who have entered a note / order.

It is also possible to print mother / child / other notes separately or together.

Range of notes: In case of an extended report, it is possible to reduce the length of it. Place a check mark and enter 'Date' and 'Time' to select notes within a range.

1. Click [Print partus report]. The window 'Print notes' opens.



2. Place check marks to select notes to print.

3. If necessary, give a range.

4. If necessary, place a check mark before partus report.

5. Click [Print].

### Interim summary

A pregnancy report is a summary of the course of the pregnancy, parturition and childbed. The report is completed through the standardised fields in the 'Patient, parturition and child data' function. This is done in the Mosos <P> program. In the event of multiple births, one report per child is created. Enter a check mark for each child for whom you want to print out a pregnancy report.



Customers who do not have these functions or programs cannot print out a pregnancy report. Only the notes report can be printed for these patients.

### Printing an overview of open orders


It is possible to print out all open orders. In the menu bar, open the 'Options' menu using the mouse and select the option 'Print outstanding orders'.

### Printer selection

If several printers are available, you can select one from the selection list under 'Select a printer'. Click on [Print] to confirm the print command or click on [Cancel] to close the 'Print' window without printing.


# Mosos <CTG> Console; Anonymous CTG search / relocate

- [Search](#)
- [Transfer](#)

 An anonymous saved CTG is a close (not running) CTG recording.

An anonymous CTG which is saved (in database) can be retrieved. Then it can be linked, printed or relocated to the correct patient record.

The required authorisation level to search and print is: Mosos CTG user. To relocate, the level is Mosos Administrator.

 In order to avoid CTG recordings being anonymous when they are stored, Mosos CTG (Console and Central monitoring) will display a text when a CTG signal is received, but there is no patient connected. The following comment will be displayed in the relevant location: Select the patient for this location.

- If the CTG is still saved anonymously (e.g. when the patient is not known in the hospital IT system), then enter a note detailing identifying patient information. For more information on this note, see the '[Mosos-Basic, Notes, General information, Notes in anonymous CTG](#)' section.

## Search

1. Select the offline location in overview (the 'empty' bottom line ).



Name	Patient number	Patient name	Age	G1 P0	CTG access by	Connected age	Work
001	9515951	Maria Anna	22y	G1 P0		40w 5d	A
002							
003							
0058							
0059							
0060							
0061							

2. Click on [Register patient] to open the patient selection screen.




3. Go to field 'Patient number' and enter 'CTG'.
4. Click on [Search] and an annual overview will appear in the bottom box, followed by a


monthly overview once a year has been selected.



5. Select the year the recording is made.
6. Select the month in which the recording was made.

	Anonymous CTG recordings are stored by year and then by month. The last day of each month is shown in descending order (most recent to least recent) in an overview (column 'Estimated delivery date').
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7. Click [OK]. The location overview appears en the bottom line contains 'CTG <year>'.
8. Then the day of recording much be searched. This can be done in two ways:
  - The function [Review/print CTG's]
  - Through [Notes].

	<ul style="list-style-type: none"> <li>• The following data in the CTG registration line can be helpful in searches and recognition: date, starting time, duration, location and the unique ID number.</li> <li>• Any notes entered for anonymous CTGs are also available under 'Patient details for anonymous CTG'. These contain identifying patient information that can help register the recording to the correct patient. For more information, see the '<a href="#">Mosos-Basic, Notes, General information</a>' section.</li> </ul>
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9. Then it can be linked, printed or relocated to the correct patient record. For more information about printing, see chapter 'CTG, Console, Printing notes and recordings'.

## Transfer


Relocate a recording can be done by an administrator only.

1. The functional application administrator logs in to Mosos <CTG> Console, via [Log in user].
2. Make sure that the patient the anonymous CTG has to be assigned to, is in the hospital information system and has a pregnancy record. For more information, see chapter '[CTG, \(Un\)linking with HIS](#)'.
3. Then link CTG <year> and <month> to the offline location, as described in 'Searching anonymous CTG' above.


- Click on [Review/print CTGs] and page through the recordings until the desired recording has been found.




- Click [Reg. patient...].

	<p>This button is only visible when the current user is known in the database with the authorisation 'Administrator'.</p>
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- The window 'Select patient' opens. Search for the patient the recording has to be linked to.
- If there are 2 or more pregnancies known in the database, select the pregnancy the recording belongs to.
- Confirm the selection with [OK]. Or, stop the selection with [Cancel].
- The following question will appear: If the CTG recording is linked to this patient, the related term is XXw Xd. Are you sure this recording should be linked to patient XX?.
- Click [Yes] to link the recording to the patient. [No] will close the window and the user returns to the window 'Select patient'.

	<ul style="list-style-type: none"> <li>Automatic notes are generated for purposes of verification. The notes are added to the notes overview. A note is added to the source pregnancy and to the target pregnancy. The content of the automatic notes can only be read; it is impossible to edit them in any way.</li> <li>It is recommended that you click on [User login] after moving CTGs. This logs the administrator out, preventing improper use of his/her authorisations.</li> </ul>
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## Mosos <CTG> Console; CTG review

- [Register reviewer](#)
- [Show review](#)
- [New review](#)
  - [Not assigned](#)
  - [Check by a second reviewer](#)
- [Open and modify](#)
- [Delete and close](#)
- [Display reviews](#)
- [Automatic review screen](#)
- [Additional information](#)

Users of the Mosos <CTG> Console with appropriate authorisation (to be set up by the functional application administrator) can enter review text and link it to a CTG recording.

### Register reviewer

Two options:

- The overview of location details in Console contains a column 'CTG review by'. To be completed using the button [Recording info].
- Select the screen 'Review and print CTG' and then entering the name in the field 'Review by'.



It is also possible to assess CTGs from Course (click on the CTG line in question) and Mosos <O> ('Examine data, CTG tab).

### Show review

1. Select the relevant patient in Mosos <CTG> Console. If there is a running CTG recording, then that is an online location. If this concerns a patient without running CTG, then the patient can be linked to the [offline location](#).

2. Click on [Review/print CTG].



3. Click on [Review] and the overview table with all the entered reviews opens. There can be several reviews for the same CTG. All reviews are sorted by date and time: the most

recent review is at the top.

4. Use the buttons [Previous CTG] and [Next CTG] to display the available CTG reviews (and entered reviews).

### New review

1. Follow steps 1 through 3 described in the 'Show review' section above.
2. Use the buttons [Previous CTG] and [Next CTG] to select the correct review.
3. Click on [New] to open the 'Review' screen.
4. If the 'User login' screen appears, then log in.
5. Select the desired review note and click on [OK] to open it.
  - The *Date* and *Time* fields are filled in by default. In the event of an ongoing recording, with the current date/time. In the event of a completed recording, with the date/time on which the CTG was completed. It is possible to manually overwrite the date but the date must be within the start and stop date/time of the recording.
  - The *By* field is automatically filled in with the name of the reviewer. Depending on the authorisation of the currently logged in user, this field is initially empty or already filled in.
  - Check by: When the recording needs to be checked by a second supervisor, it can be selected here. After saving the review, this recording appears in the second supervisor's 'Unreviewed CTG recordings' overview and he/she can add a review or review the existing check.
  - In the selection box next to *Show this review in the overview* you can indicate whether the review should be added to the medical notes in the pregnancy report notes and should be printed out in a CTG recording.
6. Complete the rest of the note.
7. Click on [OK] to close the window. If the currently logged-in user has sufficient authorisation (as viewed by the system), then the entered text is saved as a review. If the currently logged-in user does not have the required authorisation, then the login procedure is displayed. The entered text is now saved by entering a valid user name and password.
8. Click on [Cancel] to close the window without saving the entries.



If the client has access to the (optional) functionality "Individualised decision support", then the assessment can be performed using the checklist "CTG

review ante partum” and the list “CTG review intra partum”. For more information, refer to the chapter “[Mosos <CTG> Console, Physiological CTG interpretation](#)”.

### Not assigned

When connecting a patient, in the ‘Recording info’ screen the field ‘Reviewer’ will be automatically filled out with the option ‘Not assigned’. You can modify this manually. If no reviewer is yet known, this can also be changed at a later moment. The ‘Recording info’ screen can be brought back via the button [Recording info].

This effects incoming/future recordings of this patient on this location. The CTG recordings will show up in a list with CTG's to review for the selected reviewer.

When relocating the patient (to a different location) the reviewer remains the same (unless the user will choose another reviewer).

After recording it is possible to change the reviewer via the Review CTG screen. This only affects the displayed recording. This works even if the patient is disconnected and (if available/installed) through Mosos <O>/<P> and Course.

### Check by a second reviewer

When the CTG review note indicates that the review needs to be checked (see item 5 under New Review), the recording in question will appear in the Unreviewed CTGs overview of the user entered in the 'Check by' field.

1. Open the Unreviewed CTGs overview as described in the Chapter [‘Unreviewed CTGs’](#) and select a recording that needs to be checked.
2. The recordings that need to be checked by the second supervisor are indicated by the ‘Check by ‘x’’ comment in the ‘Supervisor’ column.
3. Click on [View CTG] and then on [Review...].
4. This opens the overview of the reviews. The user who needs to check the review is shown at the bottom left of the screen.



This only pertains to the last review and the corresponding check of the recording in question. This information is shown.

5. Click on [Open] and then on [Modify].

6. Log in, if necessary.
7. Add to the note (if desired) and click on [OK].
8. A 'Seen by...' remark will now appear in the 'Content' column.
9. Click twice on [Close] to return to the Unreviewed CTGs overview. The recording just checked will no longer appear on the list.
10. If you need to review/check more recordings, repeat the above steps. If you are finished, click on [Close] to return to the Mosos <CTG> Console location overview.

### Additional information

The Unreviewed CTGs overview contains recordings that are no more than 100 days old (as of the day viewed). This applies to both reviewed and unreviewed CTG recordings that still need to be checked by a second supervisor.

### Open and modify

Using [Open], an assessment that has already been made can be amended.

1. To modify an existing review, first select the review to be opened in the overview table, then click on [Open].
2. The 'review' window will be displayed again. Review the entries and implement any desired modifications.
3. Click on [OK] to save the entries and exit. Here too the logged-in user has to have sufficient authorisation, otherwise the login procedure will ensue.
4. Click on [Cancel] to close the window without saving changes.

### Delete and close

[Delete]

First select the review to be deleted in the overview table. Click on [Remove] to delete the review from the overview table. Depending on the authorisation of the currently logged-in user, the program may first display the login procedure.

[Close]

Click on [Close] to close the 'CTG reviews' overview table and return to the 'Review CTGs' window.

### Display reviews

The reviews that have been made (content, data and times) can be displayed in several ways: on the screen, on paper or using another program of the Mosos suite.

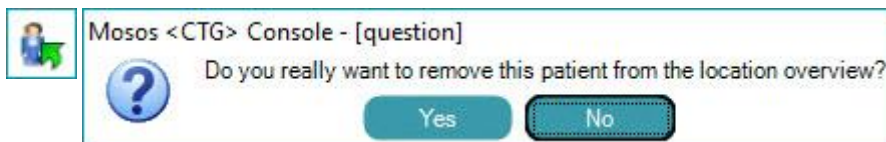
- On the screen: Using Review/print CTGs, using pregnancy report notes (filter button [CTG registration line]).
- On paper: On a printout of the CTG; on a printout of the pregnancy report notes.
- Using Mosos <O>: If there are several reviews for one CTG, then only the most recent review with a check mark can be displayed.

### Automatic review screen

It is possible to configure the programme so that when you disconnect a patient the CTG review screen appears automatically. This setting applies per customer and cannot be changed by the user.

#### Procedure

1. End the CTG recording for the patient to be disconnected.
2. Select the patient to be disconnected in the location overview.
3. Click on [Disconnect patient] or right-click on the patient's name and select 'Disconnect patient'.




4. Click [Yes] to free up this location.
5. The 'Review CTG' screen will appear. In the screen, click on the [Review] button to complete the review. For more information about entering the review, see '[Mosos - CTG, Console, CTG review](#)'.
6. Click on [Close] after you've entered the evaluation.

#### Number of recordings still to be reviewed

The number of recordings that still need to be reviewed at that moment is displayed in the [Overview of unreviewed CTGs] button.




Are there more than 9? Then '9+' will be displayed.

	<p>The number shown in the [Overview of unreviewed CTGs] button may be higher than the current (ongoing) recordings. That's because the review screen can be clicked away by the user.</p> <p>This is because not all users are permitted to review CTG recordings, although they do need to be able to free up the recording space.</p> <p>Users who are permitted to conduct reviews can access the overview of unreviewed CTGs and see which recordings they still need to review. For more information, see the chapter '<a href="#">Mosos CTG, Console, Unreviewed CTGs</a>'.</p>
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### Automatic disconnection after ending recording

In Mosos <CTG> Console it is possible to automatically disconnect the patient after ending the recording. In combination with the automatic display of the review screen, this setting will only work if an review of the respective recording has been entered. If no review has been entered, then the patient will not be automatically disconnected.

	<p>When the 'Automatic removal when CTG stops' setting is used, using the 'Review CTG every x minutes' setting is also recommended. This will ensure the automatic disconnection. For more information about this setting, see the chapter '<a href="#">Mosos CTG, Maintenance, CTG Maintenance</a>'.</p>
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For more information about automatic disconnection, see the chapter '[Mosos CTG, Maintenance, Maintenance Locations](#)'.

### Additional information

- The supplier can set up what the minimum duration (number of minutes) of a CTG must be before it is visible in the list with non-evaluated CTGs. Default value is 1 minute, meaning all CTG's shorter than 1 minute are not visible in the Review list.
- After a review is entered and the 'Check by' field is completed, a text reading 'Review has to be checked by...' will appear at the bottom of the 'Review CTG' screen. This text will disappear once the supervisor in question has done so.
- It is good to know that all editing that relates to the review of CTGs is maintained in a journal or 'log' record. CTG recordings are also a part of the Mosos <O> program.
- It is possible to set up a warning to remind the user that a (periodic) review needs to be

entered. 'Review CTG every.. minutes' can be set to indicate how frequently (in minutes) an optical signal must be given. When linking a patient, this is the default setting.

- The optical signal highlights the row with the patient's name in yellow. In Mosos <CTG> Console, this occurs in the overview location and at the top of the recording itself (Dual screen/CTG only). In Mosos <CTG> Central Monitoring, the optical warning is only visible above the recording for the patient in question.



When the patient is selected in Mosos <CTG> Console (i.e. the row turns blue), the yellow highlighting is only visible in the dual screen or the 'CTG only' screen.

- For more information about displaying the STV calculation, see '[Mosos - CTG, Mosos <CTG> Console, CTG parameters](#)'. For more information about Overview unreviewed CTG's, see '[Mosos - CTG, Mosos <CTG> Console, Overview unreviewed CTG's](#)'.

## Physiological CTG interpretation (optional)

- [Procedure](#)
- [Additional information](#)

The “Individualized decision support” functionality in Mosos <CTG> Console can be used during the physiological interpretation of a CTG recording. This is an optional functionality. It is a tool to assist in deciding whether the baby is fit enough to withstand the delivery. Two checklists have been created for this purpose: The list “CTG review ante partum” and the list “CTG review intra partum”.



For the time being, these lists have only been created for single pregnancies. If these lists are completed for multiple births, then the file does not indicate which child the list pertains to. Therefore, the use of these lists is **NOT** recommended for multiple births.

### Procedure

1. Select the relevant patient (with an ongoing CTG recording) in Mosos <CTG> Console and click on the button [Review / Print CTG's].




2. The “Review CTGs” screen will open. Then click on the [Review...] button.
3. Click on [New], log in – if necessary – and select the desired CTG review note (ante partum or intra partum).
4. The relevant note will be opened and can be completed. Use the scroll bar on the right-hand side to reach the bottom fields. Comments:
  - Check by: Enter the name (if necessary) of the user who should view/review this note as second supervisor. This recording will then appear in the Overview of unreviewed CTGs for the user in question. For more information about a second supervisor, see chapter “[CTG review](#)”.
  - Button [CTG parameters]: Clicking on this button will open a pop-up screen in which the CTG parameters that can be set/measured will be displayed. For more information about these parameters, see chapter “[CTG parameters](#)”.
  - So-called radio buttons are available for some fields. These are the round buttons that need to be clicked to make a choice. The choice can be modified by clicking on a different radio button or it can be deleted by clicking on the radio button with a stripe behind it. A red option is an option that is critical for the “fit for labour” status of the

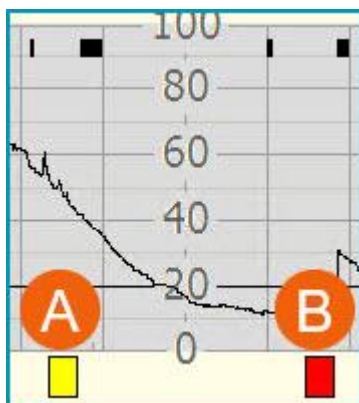
child in question.

yes  no  -

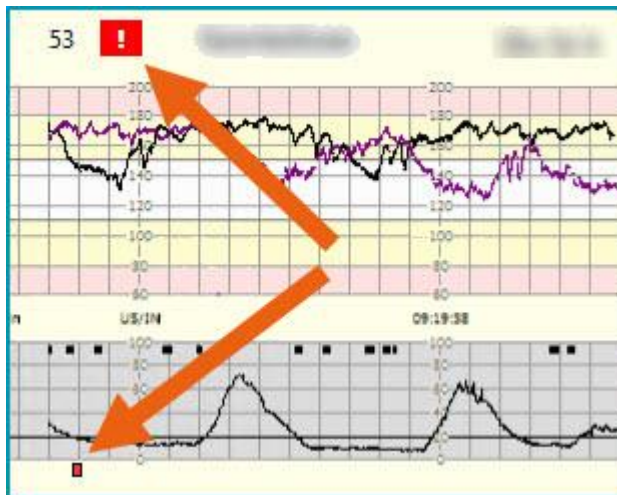
- If this list has already been completed at an earlier stage in this pregnancy, then the answers from the section “Broader clinical presentation” will be copied to the newly opened list. These answers can be amended manually.
  - The fields under “Second reviewer” only need to be completed by the user entered under “Check by”.
  - The [View history] button is only visible and available when opening an existing note. After clicking on this button, a summary of the change history for the note in question will be displayed.
  - When one of these notes (CTG evaluation ante partum / intra partum) was recorded earlier in this pregnancy, the information entered in the fields under ‘Broader clinical presentation’ is transferred to the newly opened note.
5. Entry complete? Save the note by clicking on [OK].

 Is the [OK] button not accessible? Then a mandatory field has not been completed yet.

6. The note will be saved in the notes overview and is displayed in the CTG recording as a coloured icon. The icon is yellow (A) when then note indicates that the baby is fit enough to continue with the labour. The icon is displayed in red (B) if the baby is not fit enough or if there is uncertainty about the baby’s fitness. The information entered in the note can be displayed in a tool tip by hovering the mouse over the icon.



7. The yellow or red icon is also visible in the module Mosos <CTG> Central Monitoring. In addition, an extra warning is issued in this module in the form of a red/white icon with an exclamation mark. The icon is displayed to the right of the location name. The notification “Must be reviewed immediately by a multi-disciplinary team” will be displayed after hovering the mouse over the icon. The icon will remain visible as long as there is no review note indicating that the child is fit for labour.



If the recording is stopped and then started again within the hour, then the red icon with exclamation mark will again be visible.

### Additional information

- More detailed information about the physiological review of the CTG is available online. Open the help pop-up menu in the tool bar at the top and click on the link to the explanation.
- See chapter “[Mosos <CTG> Console, review CTG](#)” for more information about the review of a recording, assigning a supervisor, presenting an assessment, etc.

## Mosos <CTG> Console; Location indicators



Location indicators are the small buttons at the bottom of the screen (footer). These buttons will always remain visible regardless of the mode/function in use. The name on the button corresponds to the tag from the location list. Holding the mouse pointer above a button will show a short text, containing name and number of a patient (if linked to that location) or the words 'No patient connected'.

### Colour indications

The border colour indicates whether a patient is linked:

- Black: No patient is linked.
- White: A patient is linked.

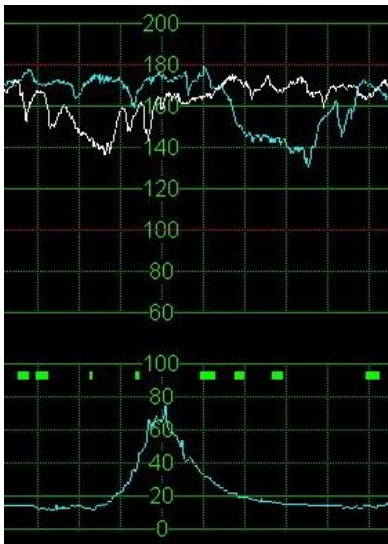
The background colour gives information about the incoming CTG recording:

- Gray: No incoming CTG signal.
- Light gray: A patient is linked, but no incoming CTG signal.
- Dark grey: This location currently does not have a position in the summary
- Green: Incoming CTG signal.
- Red: Patient linked and the incoming CTG signal gives an alarm signal (visible and audible). See '[Alarm settings](#)'.
- Orange: Patient linked and the incoming CTG signal gives an alarm signal, but only visible. The audible alarm is temporarily disabled. See '[Alarm settings](#)'

## Mosos <CTG> Console; Fetal movement pattern

The fetal movements are automatically recorded and forwarded to the Mosos <CTG> Console. The movements are shown in a current recording in green squares in the toco strip.

The standard bandwidth of the FHR is adapted from 110 to 150 bmp (beats per minute). This can be changed by the supplier.

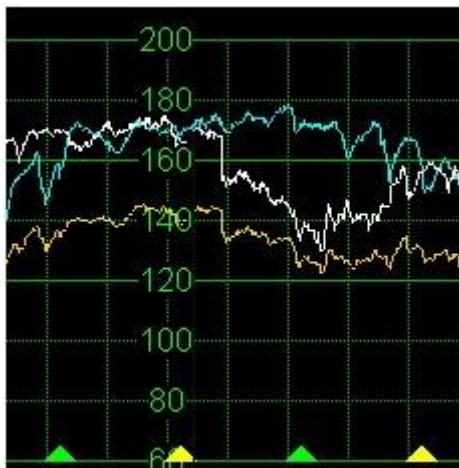


## Mosos <CTG> Console; Maternal heart activity

Display of the maternal heart rate in a current recording.

If available, the cardiotocograph can forward the maternal heart rate (MHR) to Mosos <CTG> Console. The maternal heart rate is automatically displayed in the following ways:

- In the current recording as an orange curve in the CTG strip.
- As a value in the location overview screen: in the MHR box.



### Show / Hide the maternal heart rate in a current recording

#### Show

As long as an MHR signal comes in, it will be automatically visible in the MHR field as a value. Regardless whether the curve is shown or hidden.

#### Hide

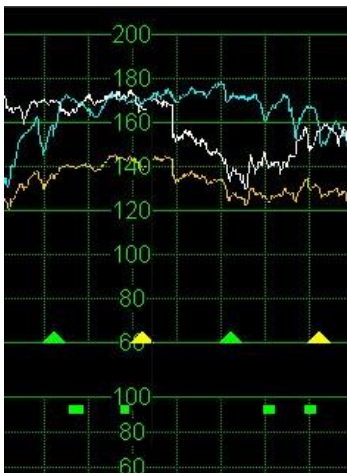
The curve for the maternal heart rate in the CTG can also be hidden, if desired. Click on [Show MHR] to toggle between hiding and showing the MHR.



## Mosos <CTG> Console; Maternal parameters

The maternal parameters consist of the oxygen saturation (SpO2) and blood pressure (NIBP: non-invasive blood pressure). If available, the cardiotocograph can forward the values to the Mosos <CTG> Console. The values are automatically displayed in the following ways:

- Green and yellow triangles are automatically placed on the measurement times in the CTG strip during the current recording. Green stands for oxygen saturation and yellow for blood pressure.
- The values are automatically displayed above the current recording through the 'Dual screen' and the 'Only CTG' image.
- The values are also automatically added to the content of the pregnancy report notes.



These automatic notes cannot be deleted or manually modified. The notes regarding oxygen saturation and blood pressure can be shown or hidden as needed using [Maternal parameters].




### Additional information

- The SpO2 value that is demonstrated in the section with the current values will become blurred over time. This happens to emphasise the fact that the displayed value is no longer up-to-date. The blurring of the value happens in 2 phases (can be set by the supplier). The standard setting is that the first blurring becomes visible after 20 seconds and the second blurring after 60 seconds.
- For more information about displaying/blurring SpO2, please consult the chapter "[Mosos CTG, Central Monitoring, View](#)".

## Mosos <CTG> Console; CTG parameters

- STV
  - Switching on
  - Automatically starting STV
  - Settings
  - Additional information
  - Switching off
  - Review
  - Review CTG
  - Print
- Baseline
- Analysis parameters
  - Additional information

### STV

	<p>If the customer has CTG devices that have an STV calculation (e.g. the Dawes&amp;Redman calculation), the customer must determine which STV calculation will be used: the one present on the CTG devices or the one in Mosos &lt;CTG&gt; Console/CM. Users must comply with this decision. Attention: failure to comply with this decision may cause confusion caused by differences in the calculation.</p>
--	---

STV is the abbreviation of Short Term Variability. It is the beat-to-beat variation in fetal heart rate. STV is computed as mean difference between successive heart beat interval epochs in all analyzable one minute sections. The STV is presented in 'ms' (milliseconds).

This concerns an **optional** functionality in Mosos <CTG> Console and Mosos <CTG> Central Monitoring.

The default setting is that the STV calculation is switched off and this needs to be switched on in the location overview per location.


The calculation is displayed in the current CTG strip, in the review of the CTG [Review / Print CTG's] and on a paper print-out of the CTG recording.

When the STV calculation is enabled, the first (**preliminary**) value will be calculated after 20 minutes of good-quality recording. If the recording is not sufficiently good, the calculation will restart.

Example: There is good recording for the first five minutes, and then it disappears until the 20th minute. Then the system will start calculating again starting from the 20th minute, and

the first (preliminary) value will not be displayed until after 40 minutes. Calculation will only restart if the lack of good recording lasts longer than 10 minutes.

After 60 minutes of good-quality recording, the **definitive** value will be calculated and displayed, and the STV calculation will restart. This process will repeat itself until the end of the recording.

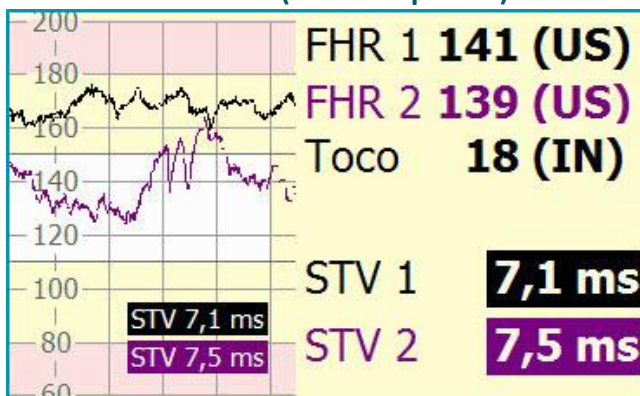
 The last shown value is not the current value, but rather the last calculated value.

The preliminary values are displayed 'transparent'. Definitive values are displayed non-transparent. See the examples in the illustration below.

#### Preliminary STV value (transparent)



#### Definitive STV value (not transparent)



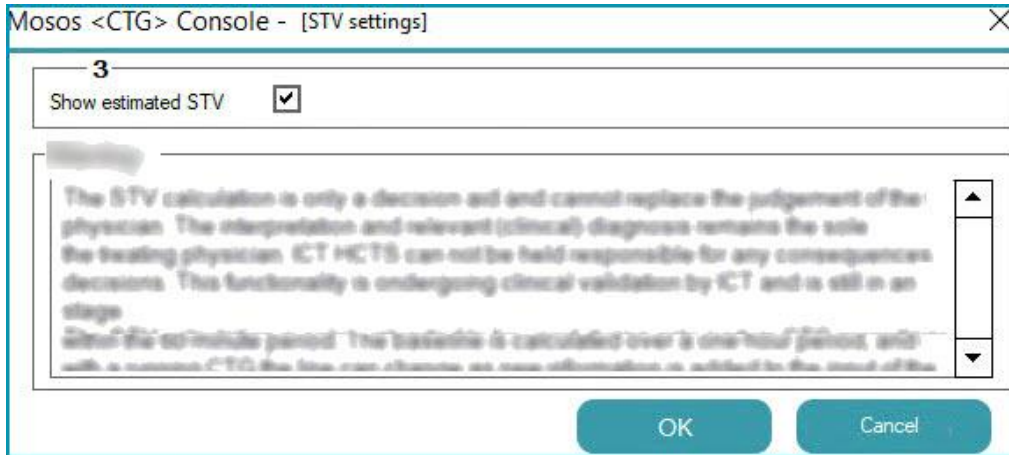
### Switching on

The STV calculation can be switched on before a patient is selected or after a patient has been connected to a location.


1. Select the desired location.
2. Click on the [Show STV] button.



- If this concerns the first patient for which the logged in user will switch on the STV calculation, then the following screen will appear:



- Click on [OK] to save this setting and simultaneously accept the disclaimer.
- When it concerns a subsequent patient, the screen described above will not appear. The STV calculation is switched on by clicking the [Show STV] button.



STV is an average that is calculated over a defined (fixed) period. The first STV value will be calculated/displayed after 20 minutes of good-quality CTG recording (well-received signal).

### Automatically starting STV


It is possible to have the STV start automatically if a patient is connected to a location in Mosos <CTG> Console. A location group must be configured in the location administration for this. For more information about configuring settings, see the chapter '[Mosos - CTG, Maintenance, Maintenance, Locations](#)'.

If a patient is connected at one of the locations in this location group, then the STV disclaimer screen will be automatically displayed. The screen only appears for the first patient who is connected by the logged-in user during this programme. If the user logs out and then back in, or if another user logs in, then the STV disclaimer screen will again be displayed for the first patient who is connected at one of these locations.

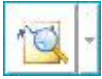
### Settings


You can show/hide the estimated STV **per location**, and this setting will remain until the

patient is disconnected at that location.

 The settings **per user** are retained when reviewing/assessing a CTG recording.

Click on the arrow next to the [Show STV] button and then on 'STV...' to find the settings.



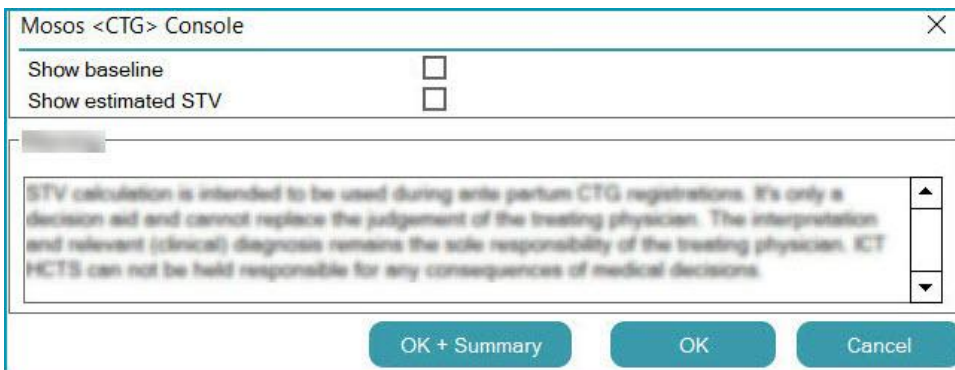
 If the user switches an STV calculation on for the first time after logging in, then the screen with the settings (and the disclaimer) will appear automatically.

### Show estimated STV

By ticking this option, the STV calculation is switched on. Remove the tick mark to stop the STV calculation.

### Additional information

When displaying a CTG recording through the 'Review CTG' function, in addition to 'Show estimated STV' you can also tick the 'Show baseline' option. Refer to the section "[Baseline](#)" further along in this chapter.



### Switching off

The STV calculation is switched off automatically as soon as the patient is disconnected from the location in question.

Switching off manually? Select the location/patient and click on [Show STV].

### Review

During the review of a CTG , the STV calculation can be switched on/off.

1. Click on [Overview of unreviewed CTG's].



2. Select the correct CTG.
3. Click on [Parameters] and place a tick mark for the options, if necessary. Then click on [OK + Summary].
4. The “Analysis parameters summary” screen will open and display the desired information.
5. In the case of a multiple pregnancy, you can opt to display the information per FHR signal (FHR1/FHR2) and use the drop-down list in the upper left to indicate which time period should be displayed.
6. The results will be displayed in the summary, with the preliminary results being shown transparent (light grey) and the definitive results non-transparent (dark grey).
7. Go back to the recording by clicking on [Close] and click on [Evaluation] to continue.

For more information about the review of CTG's, see chapter '[Mosos - CTG, Console, CTG review](#)'.

## Review CTG

During the review of a CTG , the STV calculation can be switched on/off.

Follow steps 1 and 2 listed under ‘Evaluation’ in the preceding paragraph and place/remove the tick mark for ‘Show estimated STV’.

For more information about the review of CTG's, see chapter '[Mosos - CTG, Console, Display a CTG](#)'.

## Print STV

The calculation can be displayed on a paper print-out of the CTG recording.

1. Select a patient and click on [Review / Print CTG's].



2. Select the correct CTG.

3. Click on [Parameters] and place a tick mark next to 'Show estimated STV' and (if desired) next to 'Show baseline'. Click on [OK].
4. There are a number of options under the CTG strip on the left which can be ticked /unticked (if desired). Then click on [Print].
5. In the next screen you can still make a number of selections and select the correct printer. Finished? The click on [OK] to print.

For more information about the printing of CTG's, see chapter '[Mosos - CTG, Console, Printing notes / recordings](#)'.


## Baseline

When displaying a CTG recording through the 'Review CTG' function, it is possible to display the baseline. To be able to display a baseline in a recording, the recording must contain a (good-quality) signal for at least 20 consecutive minutes.

1. Select a patient and click on [Review / Print CTG's].



2. Select the correct CTG.
3. Click on the [Parameters] button and place a tick before the option "Show baseline".
4. The baseline will be displayed in the same colour as the FHR.

 In order to show the baseline, a separate tick must be placed next to "Show baseline" for each opened recording.

5. Is there an 'opening' in de baseline? This is the point at which a new measuring period (new hour) is started.




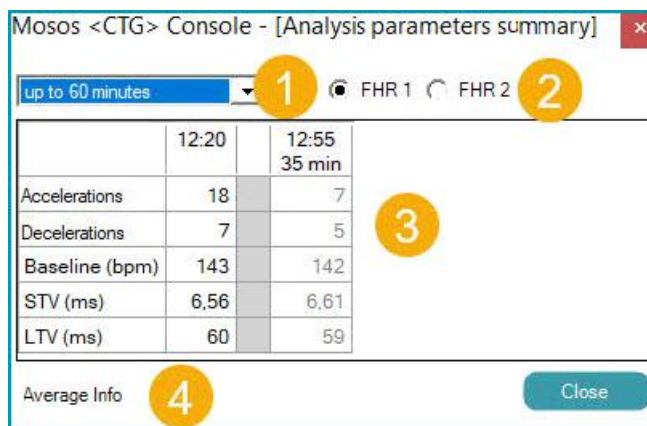
## Analysis parameters

The button [OK + Summary] in the “parameters” screen provides access to the summary of analysis parameters. The following values are displayed here: Accelerations, Decelerations, Baseline, STV and LTV.

Do you want to open the screen? Click on the following sequence of buttons: [Review/print CTG’s], [Parameters] and [OK + Summary].




 By clicking on the [OK + Summary] button, the user also indicates that he/she has read and approved the disclaimer displayed above the button.




	12:20	12:55 35 min
Accelerations	18	7
Decelerations	7	5
Baseline (bpm)	143	142
STV (ms)	6.56	6.61
LTV (ms)	60	59

1. Select the desired period for which the summary should be displayed here.
2. Select the desired FHR signal here.
3. The columns display the result per desired time unit. The last column displays the result of any remaining time. For example: You select the option “Results per hour”. A recording lasting 2 hours and 20 minutes will result in three columns. Two with the result for one hour and one column with the result for the last 20 minutes.

The results will be displayed in the summary, with the preliminary results being shown transparent (light grey) and the definitive results non-transparent (dark grey).

 With the exception of the STV and LTV. These are calculated according to the setting that was selected in the screen “Settings for analysis parameters” (when “Calculating average STV over...”). This is the screen that will open when the user clicks on the [Parameters] button.

4. By moving the mouse over the results, additional information will be displayed here for the result in question.

 If the CTG recording has bad-quality pieces of recording and/or the recording lapses for more than 10 minutes, no results are calculated for these periods. These pieces are therefore **not** displayed in the summary of the analysis parameters. The user will **not** see a chronological sequence in this case!

### Additional information

If a weak/absent signal occurs during the selected time period for the measurement of the analysis parameters, the average will only be calculated using the good signal minutes. As a result, there may be a difference in time between the column time and the time on the tool tip.

	13:51	14:51	15:51	16:31 39 min
Accelerations	15	9	8	9
Decelerations	1	1	1	1
Baseline (bpm)	149	149	148	145
STV (ms)	5,18	5,12	5,02	5,30
LTV (ms)	31	28	27	28
13:50 - average over 59 minutes				

A summary of the analysis parameters is also visible in the notes “CTG review ante partum” and “CTG review intra partum”. For more information about these notes, refer to the chapter “[Mosos <CTG> Console, Physiological CTG interpretation](#)”.

## Mosos <CTG> Console; Overview unreviewed CTG's

- [Working with the Overview unreviewed CTG's](#)
- [Searching for unreviewed CTG's](#)
- [Automatic review screen](#)

Through this function it is possible to view unreviewed CTG recordings.

The overview also contains CTG recordings that have already been reviewed but which still need to be checked by a second supervisor. These recordings are indicated by the 'x' comment in the 'Reviewer/Supervisor' column.

For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Console, CTG review](#)'.

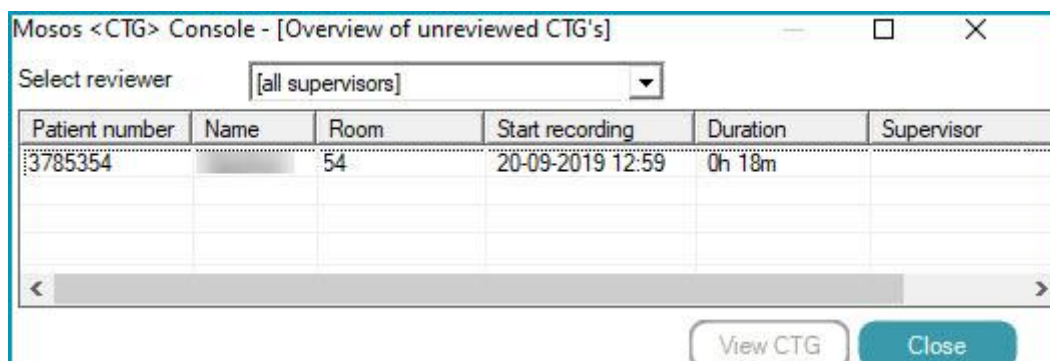
### Working with the Overview unreviewed CTG's

To open the overview, click the button [Overview of unreviewed CTG's].



The window contains an overview table with CTG recordings that have not been reviewed yet. The table consists of:

- 'Patient' with the columns: Patient number, Surname
- Start recording, Length and Supervisor. 'Supervisor' contains the name of the supervisor, entered in the window 'Recording info' which shows while linking a patient to a CTG overview position. Plus possibly a second name, when it is indicated that the review needs to be checked by a second supervisor.



Patient number	Name	Room	Start recording	Duration	Supervisor
3785354		54	20-09-2019 12:59	0h 18m	

The recordings found are default sorted by date/time, in descending order. The most recent ones on top. Optionally a different sort can be applied manually.

- Date and time in ascending order, older / first recording on top.

- Sorting on one of the other columns; either a decreasing/ascending order is possible.

To sort:

Place the mouse pointer over the desired column heading and click once (left mouse button). The sorting is reversed from decreasing to ascending or vice versa (depending on initial position).

If the number of recordings do not fit in the window, a vertical scroll bar automatically will appear. This allows the user to view the remaining part.

Three ways to search recordings. Choose one of the options behind the field 'Supervisor':

- All supervisors; Shows all unreviewed recordings.
- Name of supervisor; Shows all recordings which are assigned to the relevant supervisor. If the currently logged in user is also authorised to review, by default recordings assigned to his/her name will show.
- Not assigned; Any unassigned recording.



Assignment of recordings occurs when a patient is linked. Enter the name of the supervisor in the 'Recording info' screen. The recording can be reviewed by another user, on the condition that user is authorised sufficiently.

## Searching for unreviewed CTG's

Use the 'Supervisor' field to search for recordings that have not been assessed yet. A number of other operating buttons are available. An explanation is provided below:

### *Reviewer (Supervisor)*

The drop down list contains the names of all known reviewers (in the Mosos database) and the options 'All supervisors' and 'Not assigned'. The Mosos application administrator handles these authorisations via Mosos General Maintenance. Depending on the authorisation of the current user, one of the following situations occurs:



- Field 'Supervisor' is empty and no recordings show: Start searching by clicking an option behind 'Supervisor'. Search will start automatically.
- Field 'Supervisor' contains a name and the summary table is automatically filled with recording assigned to that person.

[Show CTG]

Select one of the recording and click [Show CTG] to open the '[Review CTG's](#)' window. For review/print purpose.

[Close]

The 'Overview of unreviewed CTG's' window will thereby be closed.

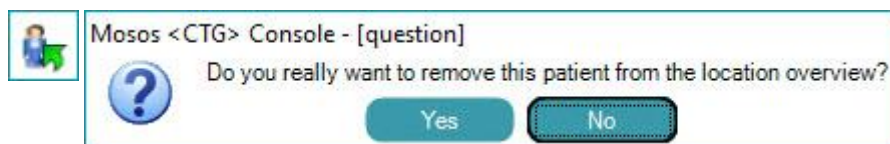
	<ul style="list-style-type: none"> <li>• When a user has the right authorisation to review, he/she only has to log in once to review a number of recordings. The program will automatically search for all recordings assigned to his/her name. Reviews will be accepted and stored automatically.</li> <li>• When you're ready reviewing and leave the computer, it is recommended to click again on the button [User login]. In this way you log out as a reviewer and prevent unauthorised use of your username and password.</li> </ul>
	<p>To reveal the Mosos Remote Care (e.g. <a href="#">PregnaOne</a>) CTG recordings in the 'Overview of unreviewed CTGs', the 'All supervisors' or 'Not assigned' option must be selected in the 'Supervisor' field.</p>

### Automatic review screen

It is possible to configure the programme so that when you disconnect a patient the CTG review screen appears automatically. This setting applies per customer and cannot be changed by the user.

#### Procedure

1. End the CTG recording for the patient to be disconnected.
2. Select the patient to be disconnected in the location overview.
3. Click on [Disconnect patient] or right-click on the patient's name and select 'Disconnect patient'.



4. Click [Yes] to free up this location.
5. The 'Review CTG' screen will appear. In the screen, click on the [Review] button to complete the review. For more information about entering the review, see '[Mosos - CTG, Console, CTG review](#)'.
6. Click on [Close] after you've entered the evaluation.

#### Number of recordings still to be reviewed

The number of recordings that still need to be reviewed at that moment is displayed in the [Overview of unreviewed CTGs] button.



Are there more than 9? Then '9+' will be displayed.



The number shown in the [Overview of unreviewed CTGs] button may be higher than the current (ongoing) recordings. That's because the review screen can be clicked away by the user.

This is because not all users are permitted to review CTG recordings, although they do need to be able to free up the recording space.

Users who are permitted to conduct reviews can access the overview of unreviewed CTGs and see which recordings they still need to review. For more information, see the chapter '[Mosos CTG, Console, Unreviewed CTGs](#)'.

### Automatic disconnection after ending recording

In Mosos <CTG> Console it is possible to automatically disconnect the patient after ending the recording. In combination with the automatic display of the review screen, this setting will only work if an review of the respective recording has been entered. If no review has been entered, then the patient will not be automatically disconnected.



When the 'Automatic removal when CTG stops' setting is used, using the 'Review CTG every x minutes' setting is also recommended. This will ensure the automatic disconnection. For more information about this setting, see the chapter '[Mosos CTG, Maintenance, CTG Maintenance](#)'.

For more information about automatic disconnection, see the chapter '[Mosos CTG, Maintenance, Maintenance Locations](#)'.

# Mosos <CTG> Console; Searching for CTGs of previous pregnancies

## Patient on a online location

1. Select a patient on a online location.
2. Drag the patient to the offline location.
3. The window 'Select pregnancy' opens automatically.
4. Select the concerning pregnancy and click [OK].
5. Click [Review/Print CTG's] and look into the recording.



6. Remember to disconnect the patient of the offline location when finished.

## For a patient who is not at an online location

1. Select the offline location in the location overview of Mosos <CTG> Console.
2. Click on [Register patient] and select the respective patient.



3. Did you find the right patient? Click on [OK].
4. The known pregnancy data are shown in the 'Select pregnancy' overview. The most recent pregnancy is listed at the top and has the focus.

Select pregnancy		
Patient (1234555)		13-2-1995
Parturition date	Estimated delivery date	Gravidity
		3
	18-3-2016	2
		1
OK		Cancel


5. Manually select the desired pregnancy and click on [OK].
6. Then use the available options to review CTGs using the 'Review and print CTGs' or 'Notes' functions.

## Mosos <CTG> Console; Alarm settings

- [Setting an alarm](#)
- [Audible alarm](#)
- [Message to mobile device](#)
- [Sound display](#)
- [Visual display](#)
- [Additional information and alarm notes](#)

The alarm (audio and visual) is triggered automatically when the FHR is above or below the set threshold for longer than the set time period. You can respond to the alarm in various ways, depending on the situation (e.g. the time period of the birth, condition of the fetus and/or mother, etc.):

Wait until the FHR restores itself and returns to a value that is within the set boundaries. In this case the alarm will stop by itself. Other possible responses: temporarily or permanently deactivating the alarm sound.

	<p>When an alarm sounds in Mosos CTG, the default setting is that users can respond to this alarm on all workstations (Console/Central Monitoring). In addition to this default setting, there is also an optional setting that the user can only respond to the alarm on the workstation in question (Console). The user must then walk to the location in question and take action there. This setting can be activated by the supplier.</p>
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### Setting an alarm


This function allows you to set visible and audible alarms. The alarm can be set separately for all locations.

#### Mosos <CTG> Console

1. Click on [Alarm settings] to open the settings field.



2. Select a location and uncheck the box to turn off the corresponding alarm or check the box to turn the alarm back on.

	<p>All alarms are set to 'on' by default, except for the SpO2 alarm. The default threshold for the FHR alarm is set to 'For expulsion 100 / 180'.</p>
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### Coincidence

Alarm on: Sounds an alarm if, during the recording of twins, the FHR of 1 child is measured 2 times by the CTG device, instead of the FHR of 2 children separately. The same applies to the MHR, which can also coincide with the FHR.

### FHR signal loss


#### Maternal SpO2 alarm

Set the SpO2 alarm for each location here. The alarm is turned off by default (unchecked). The default settings in Mosos <CTG> Maintenance are 95% and 0 seconds.




#### Alarm levels

- Stage 1\*
- Stage 2\*
- Adjust...
- No alarm

*\*The levels for the first two options are standardised but can be adjusted in Mosos <CTG> Maintenance, tab 'CTG' (authorisation required). If one of the standards before or during expulsion is not sufficient in a specific situation, then you can use the 'Adjust...' option to deviate from the standards (no authorisation is required for this).*

	The selected setting will be implemented on all systems where this location is displayed.
---	---

3. To save the new settings, click on [OK] > [Close].

	A set alarm can be recognised in the CTG by the red horizontal lines. The alarm will go off if the curve for the FHR is outside of the red horizontal lines.
	When the user sets the alarm setting to 'No alarm', audible and visual alarm is no longer available for the relevant location!
	For the CTG recordings coming in through PregnaOne, only the 'No alarm', 'FHR signal loss' and 'FHR limit values' alarm settings are available. The alarm settings/alarm signals for 'Coincidence' and the 'Maternal SpO2' are <b>NOT</b> available.

### Audible alarm

#### Mosos <CTG> Console

If the alarm should also be audible, then this must be indicated in the 'Alarm sound on this workstation' field.



Choose one of the available options from the selection list (if available):

- At all rooms
- Only at served locations
- No sound

You can close this window by selecting [Close].


### Message to mobile device

When an alarm sounds in Mosos - CTG, it is possible to receive a message on a mobile device (for example a mobile telephone / tablet). This option is available for customers who have access to IQMessenger<sup>®</sup> or Ascom<sup>®</sup>.

The message can contain the following information (depending on the settings):

- Reason for the alarm or a general notification.
- Name of patient (if entered).
- Name of the location (or mobile set-up).

The number of messages that are sent (per period/location) can be set up by the supplier/distributor.



Once a maximum number of alarm notifications per time unit has been set, only the initial alarm signal will be forwarded to the mobile device. To gain insight into the current state of affairs, the user should examine the patient immediately and/or read out the current status (in Mosos CTG or on the CTG device).

### Sound display



[Alarm sound (disable alarm sound)]

This button controls the sound when an alarm goes off at a location and is only available if the following has occurred for the selected location:

- a CTG signal comes in and
- the alarm sound has been set.



[Alarm sound (enable alarm sound)]

If the audible alarm goes off, the sound can temporarily be turned off by clicking on the 'Turn alarm sound off' button once. A red check mark will then be displayed in the button. At the moment the FHR has restored itself, the button will also automatically be restored to the

initial situation. Any subsequent alarm will then be heard again.



[Alarm sound (enable alarm sound)]

The audible alarm can be permanently turned off, if desired. Click on the 'Turn alarm sound off' button until the 'deactivated' symbol is displayed in the button. Clicking once more will restore the initial situation.

## Visual display

A visible alarm is always available (as long as limits have been set).



Location indicator/alarm; A visible alarm is always available. As soon as the alarm sounds, the location indicator in question will turn red.



Location indicator/alarm heard; If an audible alarm is temporarily switched off, the colour will change from red to orange.



Location indicator/no alarm; When the FHR recovers, the colour changes from orange to green.

It is also possible to change the alarm settings (at selected location) to 'No alarm'.

## Additional information and alarm notes

There are two types of alarms:

1. The set parameters for bradycardia/tachycardia are exceeded. These parameters can be set in Mosos <CTG> Maintenance by the administrator and modified per location in Mosos <CTG> Console (by the user). See '[Setting an alarm](#)' earlier in this chapter.
2. Alarm in the event of FHR signal loss. The FHR signal is lost. A differentiation is made between a direct ECG and an ultrasound CTG. The parameters can be set in Mosos <CTG> Maintenance by the administrator. In Mosos <CTG> Console, the user can turn the alarm on / off per location.

A delay (time before Mosos sounds an alarm) can also be set in Mosos <CTG> Maintenance for both of these. If the parameters values are exceeded, the system will pass on the set time and will then sound the alarm signals.

## Alarm notes

When the alarm settings of a running CTG are exceeded (bradycardia or tachycardia), an

alarm note is automatically placed in the note overview and Course. When the alarm is terminated (automatically or manually by the user), the note is updated with the duration of the alarm and whether the alarm was terminated by the user or automatically.

Note examples:

- For bradycardia/tachycardia: Alarm (levels: 100 and 160).
- For FHR signal loss: Alarm (FHR signal loss).

If a user responds to the alarm, this will also be indicated:

- For bradycardia or tachycardia: “ALARM (levels: [bradycardia] and [bradycardia]) until hh:mm:ss> (duration [<m> min. ]<s> sec.) (response at hh:mm:ss after [<m> min. ]<s> sec.)”.
- For FHR-signal loss: “ALARM (FHR-signal loss) until hh:mm:ss (duration [<m> min. ] <s> sec.) (response at hh:mm:ss after [<m> min. ]<s> sec.)”.



In order to distinguish more clearly, the alarm notes in the CTG strip have been assigned a different colour than the other notes. The alarm notes are displayed with an orange block and the other notes with a yellow block.

## Mosos <CTG> Central Monitoring

With Mosos <CTG> Central Monitoring (CM) it is possible (by means of CTG recording and possibly partogram) to monitor women during pregnancy, parturition and postpartum (maternal parameters).

An overview of the possibilities within Mosos <CTG> Central Monitoring:

- Anonymise names.
- Number of locations shown is variably adjustable between 1x1 and 5x5.
- The number of locations shown is automatically adjustable on alarm or new CTG / partogram data.
- Ability to show locations with an alarm or with content all the time, so they will be in the picture at all times.
- Data shown by location is adjustable:
  - Splitting FHR1 and FHR2.
  - Show MHR.
  - Show STAN<sup>®</sup>.
  - Current values (all, partially, hide).
  - Show: CTG, partogram, duo (both).
- Possibility to enlarge one location while maintaining visibility at the other locations.
- Alarm sound adjustable by location.
- View preceding part current CTG.
- 'Pin' functionality (keep location in focus).
- Alert (visible signal) in case of new / current CTG signal of screen.
- Three appearances: coloured, Classic and Dark.
- Location overview.

## Central Monitoring; Start

- [Start](#)
- [Screen content](#)
- [Colour CTG and parto](#)
- [Ranking / Sorting locations displayed](#)
- [Sidebar](#)
- [Select and deselect](#)
- [Enlarge](#)

### Start

There are three ways to start Mosos <CTG> Central Monitoring:

- A. If Mosos <CTG> Central Monitoring has been used previously, you can click on the standard selected tab 'Recent' at Mosos <CTG> Central Monitoring.
- B. Go to tab 'Mosos - CTG' and click on Mosos <CTG> Central Monitoring.
- C. Start Mosos <CTG> Console (tab Mosos - CTG or 'Recent'), log in and click [CTG Overview].



- Upon opening the location groups, Mosos <CTG> Central Monitoring shows the location groups that were checked when the application was last closed. This depends on the computer being used. For further information, see chapter '[Mosos CTG, Central Monitoring, Locations](#)'.
- Users with 'read only' authorisation may not start Mosos <CTG> Central Monitoring via the Mosos <CTG> Console. Settings in Central Monitoring can be changed via the right sidebar, and a 'read only' user is not authorised to do so.

### Screen content

The screen of Mosos <CTG> Central Monitoring consists of two parts. The left part is occupied by locations for CTG/partogram. (The number of locations displayed (after startup) can be set by supplier. Start through Mosos <CTG> Console, default 9 locations will show.

At all locations the partogram and/or CTG data is refreshed every second. In case loading relatively takes a while, a message at the related location shows: 'Loading.....'. If there is no CTG partogram data on a location, layout will be displayed vague (transparent colours).

A sidebar is located on the right side of the screen. There are various settings which relate to the location view. The sidebar is (default) fold out when starting the program.

The content of the sidebar is populated automatically. For example: location name (if a mobile station is replaced), patient name, gestational age or stage. When an update has the effect that a patient is added/disappears from the 'Locations' part, this is not updated as long as the mouse pointer is kept above 'Location choice'.

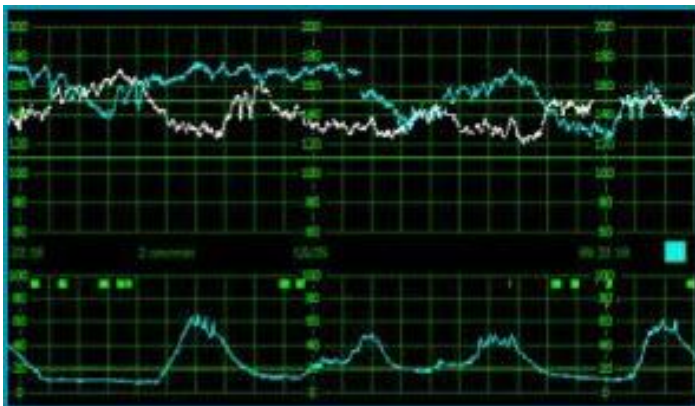
An update takes place as soon as the user moves the mouse somewhere else. In the case of a touchscreen, the order of the list is updated after 10 seconds of inactivity by the user. For example:

- A location from the list 'off screen' is pinned down. Yet, the rule remains visible until the mouse pointer is moved to another position.
- When a CTG has just started, it will get a position in the list 'Streaming' once the mouse pointer is moved to another position.
- A patient who has just been linked to a location, is only visible in the list 'Patients' once the mouse pointer is moved to another position.

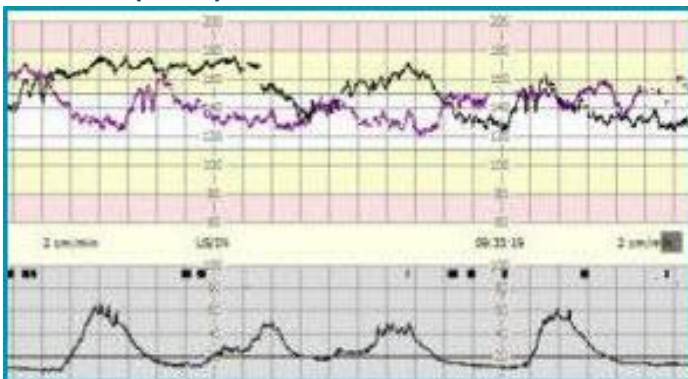
### Colour CTG and parto

This option is a setting made by the supplier. There are three colour schemes. Default scheme is 'coloured (STAN)' and the default setting applies for all locations.

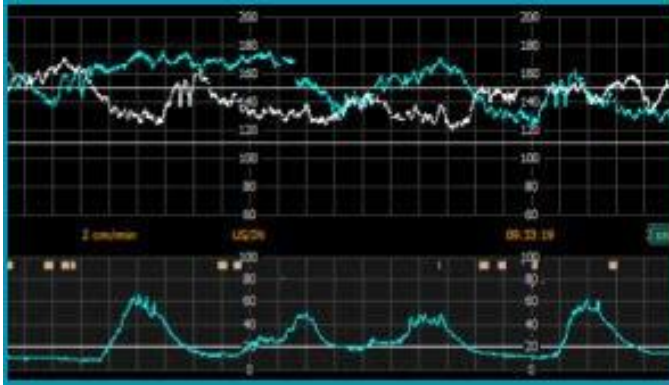
#### Classic



#### Coloured (STAN)



## Dark



## Ranking / Sorting locations displayed

Number and which location show after startup are default settings, made by supplier. User can adjust the number manually. See chapter '[CTG, Central Monitoring, View](#)' for more information.

When the program starts, it looks into all locations to see if there is information available and if so, what kind of information. Thereafter, a fixed priority protocol determines which locations are displayed. For example, a location with an incoming CTG signal is shown above an 'empty' location.



First of all, it checks which location groups are being displayed (checked under 'Locations'). The settings stated below then apply.

Ranking in display, from high to low priority:

1. Pinned location (see '[Locations](#)').
2. In alarm with CTG.\*
3. Responded to alarm with CTG.\*
4. Incoming CTG without alarm.\*
5. Partogram present.
6. No data, but linked patient.
7. Empty location. When two locations are equal to prioritization, the one in view remains in view.

*\* If layout 'partogram only' is chosen, the criteria of alarm state and incoming CTG don't apply. See chapter '[CTG, Central monitoring, View lay-out](#)'.*



- The number of locations displayed, is depending on the user control and whether the user has / hasn't made any changes in the setting 'Automatically expand'. (See chapter '[CTG, Central Monitoring, View](#)'). It should be mentioned that the order in which the locations are displayed doesn't depend on the priority list. This would otherwise lead to continues

replacing and thus cause a 'restless' screen view.

- Within each category intra partum locations override ante partum and post partum locations.

## Sidebar

In unfolded state the sidebar contains the following options:

1. [View](#)
2. [Selected CTG](#)
3. [Enlarged area](#)
4. [Locations](#)

Depending on the user action, the options will be folded or unfolded. In addition to the fact that a user can fold/unfold the parts himself, the parts sometimes also fold/unfold automatically. For example, if a location with CTG is selected, 'Selected CTG' will open and 'View' will close.

If a CTG is displayed enlarged, 'Selected CTG' and 'Enlarged area' will open. This indicates that one can use these parts to make certain choices, with regard to the selected location.

For more information about the content of the various parts of the sidebar, see the corresponding chapters in this manual.



When one or more locations are not displayed, but have a CTG signal, in the closed sidebar this is shown by means of a yellow triangle, including the number of locations.



Click on this arrow to open the sidebar.



Click on this arrow to close the sidebar.



With the arrows next to the parts name, the parts can be folded/unfolded.



When the screen is too small to show all the content of unfolded parts, a scroll bar is displayed on the right side. It can be used to gain access to the 'hidden' content.

## Select and deselect

1. Select a location by clicking on it. The selected location is recognizable by a blue overlying colour.
2. As a result (of selecting) the buttons / check boxes in the part 'Selected CTG' will become accessible.
3. By clicking on the selected location again, selection is cancelled and the part 'Selected CTG' will fold.

## Enlarge

By clicking twice (double click) on a location, it will enlarge. Full width and approximately half the height of the screen. Beneath it, all locations will show reduced (included the enlarged location), spread over the remaining space.

Close the enlarged area by clicking the white cross in a red block or just click twice anywhere in the enlarged location. It is also possible to enlarge another location, without closing the one open. Just click twice on the location that needs to be enlarged.

## Screen size ('Splitter')

When a location is shown enlarged, a 'splitter' is present between the enlarged locations and the locations below. It allows the user to distribute the available height.

## Central monitoring; View

- [Number](#)
- [Automatically expand](#)
- [Lay-out](#)
- [Show actual values](#)
- [Anonymise names](#)
- [Mute alarm](#)

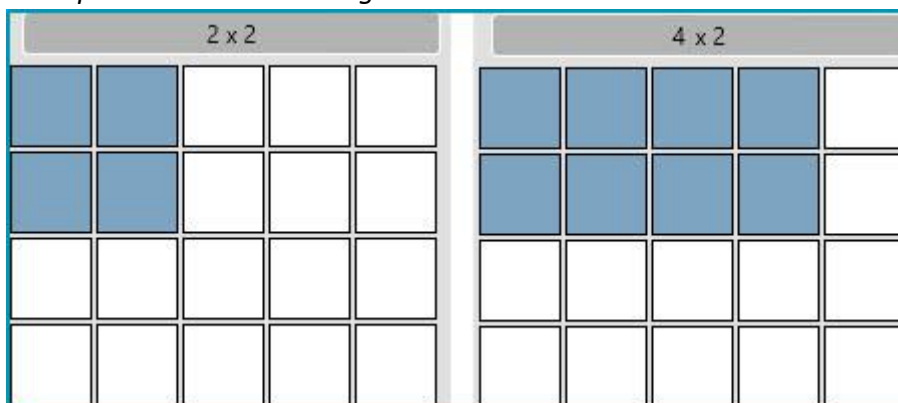
### Number


On the button below 'View' a value is displayed that is indicating the number of locations shown (minimum 1, maximum 25). The first number relates to the number of locations shown horizontally, the second number relates to the number of locations shown vertically.

The default number of locations shown after startup is a default setting, adjustable by the supplier.

By clicking the button a so called 'user control' screen opens, through which the user can set the number of locations shown. Drag and select with mouse to adjust. The number is variable (horizontal/vertical).

*Example user control setting:*



 The number of locations chosen, is not necessarily the number that is displayed. For example, if a hospital has 10 locations and a user chooses 12 locations in the user control, 10 locations will be shown and two 'empty' places.

Which locations will be displayed is also depending on the priority list (see chapter '[Central Monitoring, Start](#)').

When the number of locations shown is too large (relative to screen size), the CTG data of some locations isn't displayed. Instead, a flashing cursor indicates there is a hidden CTG


signal. To show, adjust the number or the list beneath location choice.

### Mobile stations

Above a mobile station, the location tag is displayed (awarded through Mosos <CTG> Console). The name is shown between brackets. The location tag is used for sorting the displayed location. First the fixed locations, then the mobile stations with location tag and finally the mobile stations without location tag.

### Automatically expand

Under 'Autom. expansion' it is possible to select what should happen with the configured image when a CTG raises an alarm.

	<p>The automatic expansion only works correctly if all exhibited locations with content are fixed. If this is not the case, then the number of visible locations will not be expanded (with alarm), but the recording with alarm will take the place of a recording without alarm.</p>
---	--

#### [Never]

When set to 'Never' the number of locations shown will always be equal to the number set at the user control (button [Number]).


#### [On alarm]

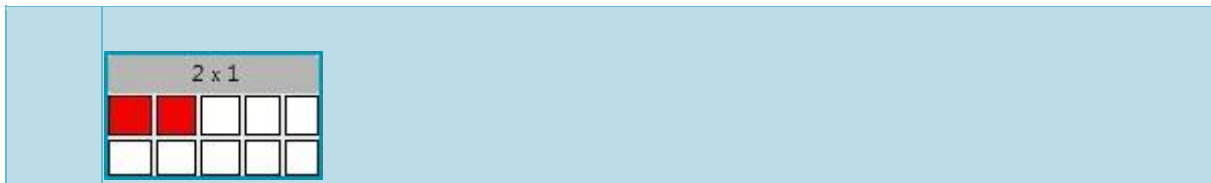
When set to 'On alarm': If a location is not displayed and the CTG alarm is activated, the number of locations displayed will automatically increase. When the alarm has ended, the display will automatically return to the user-defined number.

#### [With content]

When set to 'With content': If a location is not displayed, screen content will appear (CTG signal), the number of locations displayed will automatically increase. When the signal stops, the display will automatically return to the user-defined number. 'With content' also depends on 'layout'. The user-defined number continues to prevail. This number is also not adjusted when for example locations appear/disappear.

- If 'CTG' is chosen (at 'Layout'), then all locations with incoming CTG data will show.
- If partogram is available: If 'Duo' is chosen (at 'Layout'), then all locations with incoming CTG and partogram data will show.
- If partogram is available: If 'Partogram' is chosen (at 'Layout'), then all locations with incoming partogram data will show.

	<p>If 'On alarm' or 'With content' is chosen, the number of displayed locations can't be lower than the number of locations in alarm or with content. If this is attempted at the button [Number], red fields appear in the user control screen.</p>
---	--



When locations automatically appear, this will not be visible on the button [Number]. This simply retains its original setting. When locations lose their content, the screen will switch back automatically to the number set (by user).

## Lay-out

Click on the [Layout...] button to access the options below.


The options [CTG], [Duo] or [Partogram] can be chosen. The option chosen applies to all pending locations (including any enlarged location).

- [CTG] All locations (shown on screen) show CTG layout.
- [Duo] All locations (shown on screen) show CTG and partogram layout.
- [Parto] All locations (shown on screen) show partogram layout.

By placing a check mark before 'Optimise', it is possible to refine the display even further. This button affects all locations, including any enlarged location). By placing a check mark the locations show what is being asked (CTG/Duo or Partogram), but when that specific signal doesn't enter, there are two possibilities:















- There is no other signal. A blank field will show, corresponding to the requested layout.
- There is another signal. This will be displayed.


Chosen layout (button)	CTG data present?	Partogram data present?	Shown:
[CTG]	No	No	CTG
[CTG]	Yes	No	CTG
[CTG]	No	Yes	Partogram
[CTG]	Yes	Yes	CTG
[Duo]	No	No	CTG + Partogram
[Duo]	Yes	No	CTG
[Duo]	No	Yes	Partogram
[Duo]	Yes	Yes	CTG + Partogram
[Parto]	No	No	Partogram
[Parto]	Yes	No	CTG
[Parto]	No	Yes	Partogram
[Parto]	Yes	Yes	Partogram

 If a location has no content (no incoming CTG signal and no partogram data), the locations will be displayed blurred, by making the colours transparent.



### Show actual values

The following options can be chosen: [All], [Partially] or [None]. This relates to the FHR1, FHR2, STV and the toco. These settings only affect the view if a CTG signal is displayed. The setting chosen affects all (displayed) locations, any enlarged location included. In the following examples, the differences between the settings:

142		FHR 1	142 (US)	
-		FHR 2	- (OF)	
15		Toco	15 (EX)	
10.1		STV 1	10.1 ms	
70		MHR	70 (PU)	
96.5%		SpO2	96.5%	
95/62		NIBP	95/62	

 Depending on the options of the CTG machine, the MHR / SpO2 and/or blood pressure can also be displayed.

The colour indicates the signal quality as measured by the cardiotocograph: green (good quality), yellow (moderate quality), grey (not connected) or red (no signal).

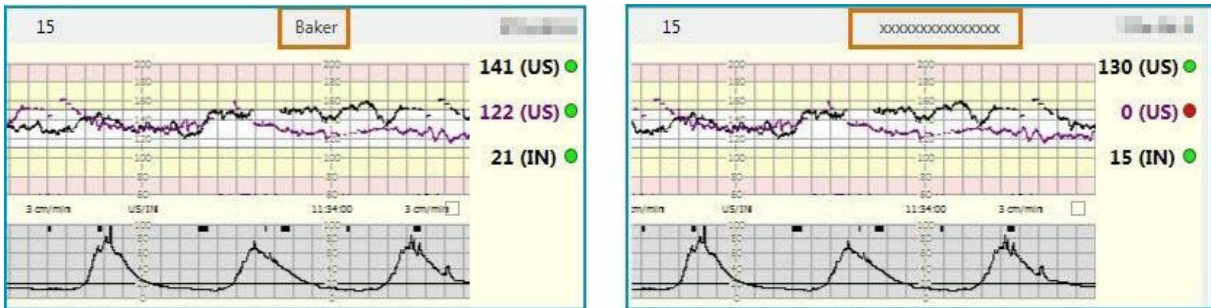
-  When saturation of the patient is shown at the actual values, this value does not reflect the actual data. Depending on the settings of the CTG device, the signal is sent to Mosos. This can be every 2 to 5 minutes. For the correct settings, consult the manual of the CTG device.
-  The SpO2 value that is demonstrated in the section with the current values will become blurred over time. This happens to emphasise the fact that the displayed value is no longer up-to-date. The blurring of the value happens in 2 phases (can be set by the supplier). The standard setting is that the first blurring becomes visible after 20 seconds and the second blurring after 60 seconds.


### Anonymise names

By placing a check mark before 'Anonymise names' the names will be replaced by 'xxxxxxxxxxxxxx', above the locations and in the list in 'Location choice'. The names in the


“Locations” section will also be made anonymous.

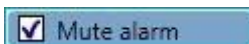
*Example*




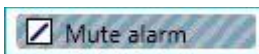
-  • The programs will hold this setting, even when closing down and starting up again. To regain the names, the user must remove the check mark himself.
- In Mosos <CTG> Central Monitoring through Mosos <CTG> Console, this function is always accessible. In the separate version of Mosos <CTG> Central Monitoring, this function isn't accessible, but an administrator can adjust it in the CTG Maintenance program.

**Mute alarm**

After placing a check mark before 'Mute alarm' no sound will be audible if at one or more locations the alarm is activated. In the bar above all locations displayed, this will be visible by the appearance of an icon: . The box 'Mute alarm' will show in a darkblue color (instead of grey) and a check mark is visible.



The alarm is turned on again at one or more (but not all locations) by clicking on the icon  in the option 'View'. This will be visible by the fact that the box 'Mute alarm' is shaded and instead of a check mark a line is placed in the check box before it.



## Central Monitoring; Selected CTG

- [View](#)
- [Alarm setting](#)
- [Alarm parameters](#)
- [Alarm sound](#)

To make use of the options in the part 'Selected CTG' a location (with incoming CTG signal) must be selected. If this isn't done, the program will show a warning: 'Select a CTG to change these settings. In addition, the options aren't accessible.


### View

#### Show STV

If the "Display STV" function is checked (in Mosos <CTG> Console), then the STV calculation will be displayed in the strip and possibly (depending on the settings) in the actual values. For more information about the SVT calculation, see chapter '[Mosos CTG, Console, CTG parameters](#)'.

#### Split FHR

If a check mark is placed before 'Split FHR' both heart rhythms will be shown separate in two CTG strips (below each other), rather than over each other in one strip. This option is available when a signal arrives at the FHR2 entrance of the CTG device. When no check mark is placed the two signals will show in the same FHR strip. This option is selectable per location.

	<p>There may be a special character, a '?', displayed as a result of coincidence in a FHR1 and FHR2 that isn't separated. This character will appear above the CTG signal. If the cursor is held above the question mark, the following text will appear: Coincidence is detected.</p>
---	--

### Alarm setting

Use of this function allows the user to set whether an alarm should sound if the FHR signal is lost and whether an alarm notification (type "FHR signal loss") should be created. The default setting is that the check box is ticked. The standard settings are: Ultrasound (via CTG) after 30 seconds and Direct ECG (via skull electrode) after 5 seconds. The administrator can change these settings in Mosos <CTG> Administration (tab sheet "CTG").

### Alarm parameters

The following options are available: [Stage 1] (Before delivery / Antepartum), [Stage 2]

(During delivery / Durante partu), [Adjust] and [No Alarm]. Setting the alarm can happen when no patient is linked and it remains valid when a patient is linked.

[No alarm]

No alarm will be emitted and the 'Bradycardia' and 'Tachycardia' fields will remain inaccessible.


[Stage 1] / [Stage 2]

Select by clicking on one of them. The fields 'Tachycardia' and 'Bradycardia' will be accessible and the default values (set by administrator) will show. In the CTG a red horizontal line will appear at the height of both values. The values can be adjusted manually, with the alarm setting set to [Adjusted].

[Aangepast]

Select by clicking on it. The fields 'Tachycardia' and 'Bradycardia' will be accessible and the default values (set by administrator) will show. In the CTG a red horizontal line will appear at the height of both values. These values can be adjusted (manually). The values in 'Bradycardia' can be adjusted from 61 to 198. The values in 'Tachycardia' can be adjusted from 62 to 199.

Furthermore, the value in 'Tachycardia' should be higher than the value in 'Bradycardia'. The program reports a warning if there is a non-compliance with one or more conditions.

	<p>When an alarm sounds in Mosos CTG, the default setting is that users can respond to this alarm on all workstations (Console/Central Monitoring). In addition to this default setting, there is also an optional setting that the user can only respond to the alarm on the workstation in question (Console). The user must then walk to the location in question and take action there. This setting can be activated by the supplier.</p>
---	--

### Additional information

- When the CTG signal stops coming in (for example, finished recording), the alarm setting for that location remains.
- The alarm setting (tachycardia and bradycardia) will be reset to 'Before expulsion' after disconnecting the patient.
- If you have selected a location with an ante partum patient linked to it and a 'Stage 2 setting'? The program will automatically display a message asking: "The alarm setting is 'During expulsion', but the stage of the patient is 'ante partum'. Would you like to change the stage to 'intra partum'?" Click [Yes] to change and in the bar above the location the 'A' will change in to a 'D'. Click [No] to remain 'ante partum'. Regardless of the choice that

is made, from this moment on the alarm setting 'During expulsion' applies.


- The CTG strip runs with along with the signal. As a result, the CTG has a fixed time axis. On the strip the actual time will show (and not the number of minutes the signal is shown).
- When the alarm settings of a running CTG are exceeded, an alarm note is automatically placed in the note overview and Course. When the alarm is terminated (automatically or manually by the user), the note is updated with the duration of the alarm and whether the alarm was terminated by the user or automatically.
- When the settings are changed to have an SpO2 alarm go off for different values, these settings will also apply to Central Monitoring. The standard alarm signals will be displayed. The SpO2 alarm can be turned on/off in Mosos <CTG> Console per location and the values can be changed in Mosos <CTG> Maintenance for all locations.
- For more information about alarm, see chapter '[CTG, Central Monitoring, Alarm CM](#)'.

## Alarm sound

With this option it is possible to turn of/on the audible alarm on one or more locations.

1. Select a location (click on it). The part 'Selected CTG' will open automatically.
2. Place a check mark before 'Mute alarm'. In the bar above the selected location an icon will appear to indicate the audible alarm is muted.



3. Two ways to turn it back on again:
  - Select the location and remove the check mark before 'Mute alarm'.
  - Click on the icon  above the selected location. The icon and the check mark before 'Mute alarm' will disappear automatically.



This option only works for a selected location. The same option in the part '[View](#)' applies to all locations (shown and not shown).

## Central Monitoring; Enlarged area

- [Enlarge](#)
- [Settings](#)
- [View preceding part current CTG](#)

When enlarging a location, the enlarged area has the same view as the small area. Both can be selected separately.



The settings in the part 'Enlarged area' only apply to the enlarged location and have no influence on the other (non-enlarged) locations.

### Enlarge

By clicking twice on a location, it will enlarge. Full width and approximately half the height of the screen. Beneath it, all locations will show reduced (included the enlarged location), spread over the remaining space.

Close the enlarged area by clicking the white cross in a red block or just click twice anywhere in the enlarged location. It is also possible to enlarge another location, without closing the one open. Just click twice on the location that needs to be enlarged.

### Screen size ('Splitter')

When a location is shown enlarged, a 'splitter' is present between the enlarged locations and the locations below. It allows the user to distribute the available height.

### Settings

As long as there is no location enlarged, the buttons in 'Enlarged area' (side bar) aren't accessible. A message with the following text will show: A location should be enlarged to change these settings. This is possible by double clicking a location.

The options [CTG], [Duo] or [Partogram] can be chosen.

[CTG] : The enlarged area shows CTG layout.

[Duo] : The enlarged area shows CTG as well as partogram layout.

[Parto] : The enlarged area shows partogram layout.

Show actual values : [All], [Partially] or [Hide]. This is related to FHR1, FHR2, toco and other factors. These settings only affect an enlarged area with an incoming CTG signal.

## View preceding part current CTG

1. Double click on the specific recording in Central Monitoring to enlarge the recording.
2. Go to 'Enlarged area' (side bar) and choose [CTG] layout.
3. Select the box 'Historic'.
4. The preceding part of the recording is shown in the upper left-hand corner of the enlarged recording. Use the cursor to move this part from left to right (and vice versa).



The CTG strip in the historic section does not run along with the recording.  
To refresh, deselect and select the box 'Historic'.

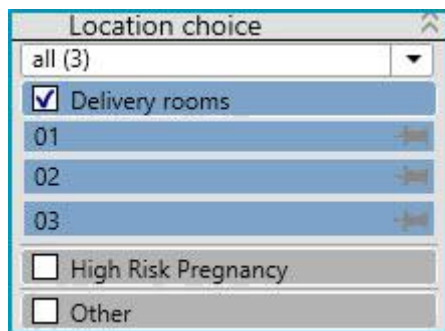
## Central Monitoring; Locations


- [Show](#)
- [Legend](#)
- [Pinned location](#)

### Show

Upon opening the location groups, Mosos <CTG> Central Monitoring shows the location groups that were checked when the application was last closed. This depends on the computer being used. Check or uncheck a location group (department) to show or hide it.

For further information about managing location groups, see chapter '[Mosos CTG, Maintenance, Location maintenance](#)'.





The following applies to all settings stated below: First of all, it checks which location groups are being displayed (checked under 'Location choice'). The settings stated below then apply.

The drop down list gives the following choices on which locations must be shown:

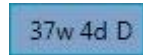
- All: A list of all locations, including the ones not displayed in the overview (on the left).
- Off screen: A list of locations not displayed in the overview.
- Streaming CTG: A list of all locations with an incoming CTG signal. Including the locations not displayed in the overview. The number of locations with an incoming CTG signal, but not displayed, is listed with ('XX' off screen).
- Patients: A list of all locations with a linked patient. This includes locations not displayed in the overview and locations with no incoming signal. The number of locations with a linked patient, but not displayed in the overview, is listed with ('XX' not in overview).

### Legend



Location name and patient name: Patient name can be shown anonymous (see chapter '[CTG,](#)

[CM, View'](#)). The dark blue discolouration of the bar indicates that the location is shown in the overview on the left (if the STAN colour scheme is used).



Gestational age and stage is shown.



The pins indicate whether a location is 'pinned' (portrait / ark) or not (landscape / light). See 'Pinned location' below.


### Pinned location

By pinning a location, this location remains in overview at all times. Regardless priority/alarm. See also the ['CM, Start, Sequence/sorting of locations to be displayed'](#) chapter.

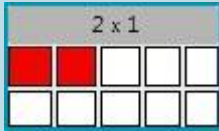
1. In the list, click on the thumbtack after the location you want to set.
2. The pin will move to a vertical position (portrait) and the colour will turn into dark grey.
3. At the corresponding location in the overview, a pin appears in the bar above the signal.



4. To release the location, click on the pin. This can be done in the bar above the location as well as in the list beneath 'Location choice'. After clicking on the pin, it will move to horizontal position (landscape) and turn light grey. In the bar above the location, the pin disappears.



If multiple locations are pinned, the number in the part 'View', user control' can never be lower than the number of pinned locations. If this is attempted, the unauthorised values in the user control show red tones. Conversely, it is also not possible to pin more locations in the list 'Location choice' than the number of locations selected at 'View'. Pins will show disabled (vaguely coloured).




## Central Monitoring; CTG and location content

- [Location data](#)
- [Strip](#)
- [Background colour](#)
- [CTG scale](#)
- [FHR strip](#)
- [Toco- / STAN<sup>®</sup> strip](#)
- [Actual values and signal](#)
- [View preceding part current CTG](#)

### Location data

- Location (top left)
- Patient name: Name or anonymous ('xxxxxxxxx')
- Gestational age ([number]w [number]d) + Stage (top right): 'A', 'P' or 'I'
- CTG



- When the patient data bar is yellow, this means that a review must be entered for the corresponding recording. For more information, see the manual, chapter '[Mosos - CTG, Maintenance, CTG](#)' and '[Mosos - CTG, Console, CTG review](#)'.
- Does the task bar with patient data issue a warning in the form of a red/white square icon with an exclamation mark? Then an review note has been created in which an entry states that the baby is not (sufficiently) fit to withstand the delivery. For more information, refer to the chapter "[Mosos <CTG> Console, Physiological CTG interpretation](#)".
- If the location name has a blue marking, this concerns a high-risk patient. This setting can be adjusted in the 'Recording info' screen. For more information, refer to chapter [Mosos-CTG, Console, Screen Overview \(colours\)](#).

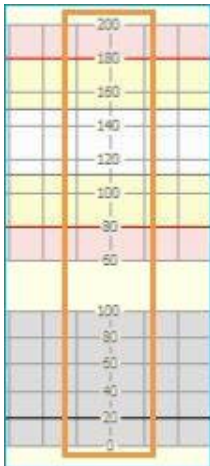
### Strip


The CTG strip runs along with the signal, this provides the CTG with a fixed time axis. In the strip the actual time is displayed. If a location has no data content (no incoming CTG/partogram data), the location in overview is shown blurred (transparent colour).

The CTG strip always contains a FHR strip and a toco strip. A vertical numerical scale is located every 10 booths (in both strips). The FHR scale runs from 60 to 200. The administrator can adjust it to 50-210. The strip will get wider, but the scale stays the same.

The toco scale runs from 0 to 100. At the height of '20' it contains a horizontal line. This line

allows users to calibrate the toco signal on the CTG device.



 In Mosos <CTG> Maintenance the administrator can place a check mark before 'Cut off CTG at frame boundaries'. It determines at what point a signal is truncated. A point outside the top/bottom of the CTG recording, is drawn at his actual place or it will be truncated at the upper / lower line.

### Background colour

The background colour of the FHR strip contains (if set to coloured theme) smaller strips with the following colours: pink (alarm), yellow (attention), and white (normal). If the colour theme is Dark or Classic, these colours don't show. The white strip is the bandwidth of a normal FHR. The corresponding values, where the white and yellow strips touch, are adjustable by the administrator.

When Dark / Classic theme is set, the bandwidth is shown by two horizontal lines. The toco strip has a light grey background colour (if set to coloured theme). Dark/Classic theme use the standard background colour of the CTG strip.

### CTG scale


The scale can be set (by the supplier) to '50-210' or '60-200' (default).

### FHR strip

The FHR strip shows FHR1, FHR2 and MHR (and optionally STV), if present. In addition, the maternal parameters (green = SpO2) and NIBP (yellow triangles) will show, if present.

If a check mark is placed before 'Split FHR' (in the part 'General'), both heart rhythms (if present) will be shown in two separate CTG strips. The MHR (if present) will show in both FHR strips. Other data, like maternal parameters, will show in the bottom (FHR2) strip.

A question mark icon is shown at the top of the FHR strip if the cardiocotograph device detects coincidence between FHR1 and FHR 2. If the cursor is held above the question mark, the following text will appear: Coincidence is detected. With a maximum of 1 per centimeter this question mark is displayed (while the signal comes in every second).

 Some cardiocotograph devices do not detect coincidence. If they do not, Central Monitoring also does not.

### Toco- / STAN<sup>®</sup> strip

In the toco strip the uterine contractions show through a curve. In addition, black blocks (variable width) display the movement pattern of the fetus.

If a patient is linked to a location and STAN data is entering, a STAN strip is displayed. If a patient is not linked? then the strip will be hidden. The range on the Y axis is -0,125 to 0,500. At '0' the text 'T/QRS' shows.

At the top of the STAN strip sometimes blocks are displayed, empty or with the text 'ST event'. These are the so-called 'STAN Notes'. When hovering (with mouse pointer) over these blocks, the content gets visible. There are three types of blocks:

- ST-EVENT block: Content of a ST event.
- ? block: A missing cardiocotography report.
- Empty block: So-called 'other event'. Example: Perfect signal quality.

Black cross icons in the STAN strip show the so-called T/QRS ratio from the ST analysis. Beneath the strip, 'BP' is displayed, which stands for 'BiPhasic'. The calculated biphasic ST events are displayed, using the numbers 1, 2 and 3.

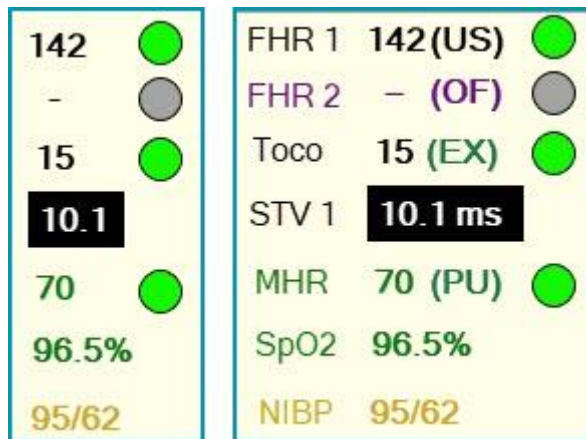


### Actual values and signal

Right next to the CTG the following values can be seen (if in the part 'View'. Current values is set to [Show all] or [Partially]):

- FHR 1
- FHR 2
- Toco
- STV: Optional functionality and can (if present) be switched on/off per location.

- MHR: Only shows if a MRH signal is received. If the MHR is measured at the same time as the NIBP, a yellow triangle – instead of a dot – will be displayed. If the MHR is measured at the same time as the SpO2, a green triangle – instead of a dot – will be displayed.
- NIBP: Only shows when a NIBP measurement is received.
- SpO2: Only shows when a SpO2 measurement is received.



If no signal comes in, bars are shown. A good signal will give a green dot, a poor signal a red dot and a moderate signal a yellow dot. If there is a signal but there is no corresponding value, a grey dot shows.

If there is a signal, the CTG device also sends the method. This is shown behind the value. The FHR method can be DI or US. The toco method can be IN or EX. The MRH method can be EX or PU.

Method	Explanation
-	Cardiotocograph not linked or not on.
OF	No signal.
DI	Direct derivation, using electrode.
US	Ultrasound for uterine activity.
IN	Intrauterine pressure measurement.
EX	Extrauterine pressure measurement.
PU	Pulse, measured with a pulse oximeter.

Once the CTG signal stops, the actual values are cleared. The section returns to initial state, in which only the FHR1, FHR2 and toco are shown.

### View preceding part current CTG

1. Double click on the specific recording in Central Monitoring to enlarge the recording.
2. Go to 'Enlarged area' (side bar) and choose [CTG] layout.

3. Tick the box next to 'Historic'.
4. The preceding part of the recording is shown in the upper left-hand corner of the enlarged recording. Use the cursor to move this part from left to right (and vice versa).



The CTG strip in the historic section does not run along with the recording.  
To refresh, deselect and select the box 'Historic'.

\* *hovering: moving over the image / text with the mouse.*

## Central Monitoring; Alarm

- [Alarm signals](#)
- [Mute alarm](#)
- [Handling alarm \(location shown in overview\)](#)
- [Handling alarm \(location not shown in overview\)](#)
- [Additional information](#)

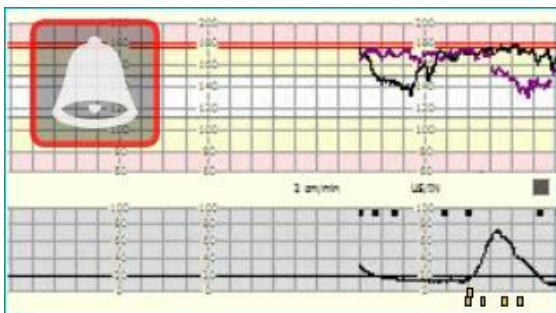
To set the alarm, see chapter '[Mosos - CTG, Central monitoring, Start, Selected CTG](#)'.

### Alarm signals


When an alarm goes, this is visible (and audible) to:

- A red border around the location,
- a red square, overlaying the location name / number,
- a square button (in overlay) with a picture of an alarm bell,
- and a sound, provided it's enabled in the software (by administrator) and the user didn't place a check mark in the sidebar, at 'View' before 'Mute alarm'. If a check mark is placed, there will not be a sound alarm, but the symbol of the speaker will be shown, with a blockade (see right example below).

When the alarm settings of a running CTG are exceeded, an alarm note is automatically placed in the note overview and Course. When the alarm is terminated (automatically or manually by the user), the note is updated with the duration of the alarm and whether the alarm was terminated by the user or automatically.



When an alarm shows / sounds, this happens on all Central Monitoring programs where the location is displayed. The alarm area applies to all programs. The alarm sound can be set differently for each program.




When an alarm sounds in Mosos CTG, the default setting is that users can respond to this alarm on all workstations (Console/Central Monitoring). In addition to this default setting, there is also an optional setting that the user

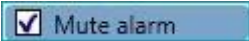
can only respond to the alarm on the workstation in question (Console). The user must then walk to the location in question and take action there. This setting can be activated by the supplier.


An alarm may affect the current view of Central Monitoring. When in the option 'Vue' 'Automatically expand on alarm' is chosen, the concerning location will appear on screen (when it was not already). If only partogram is visible on the location, the duo view will automatically open, so the CTG signal will show. After handling the alarm, the screen returns to original settings.

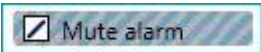
### Mute alarm

#### Through sidebar, part 'View'

After placing a check mark before 'Mute alarm' no sound will be audible if at one or more locations the alarm is activated. In the bar above all locations displayed, this will be visible by the appearance of an icon: . The box 'Mute alarm' will show in a darkblue color (instead of grey) and a check mark is visible.



The alarm is turned on again at one or more (but not all locations) by clicking on the icon  in the option 'View'. This will be visible by the fact that the box 'Mute alarm' is shaded and instead of a check mark a line is placed in the check box before it.



### Handling alarm (location shown in overview)

During alarm, the symbol 'Bell' appears at the location in the overview. Hovering with the mouse pointer above this symbol will show a green check mark'.



*Green check mark;* By clicking it, both alarm icons will disappear. The red square, overlaying the location name / number turns to orange and the red border around the location disappears. The orange square will disappear when the alarm finishes.

### Handling alarm (location not shown in overview)

If an alarm goes at a location which is not shown in the overview and in the option 'General,

automatically expand' the option [Never] is chosen, then this alarm will be visible/audible by:

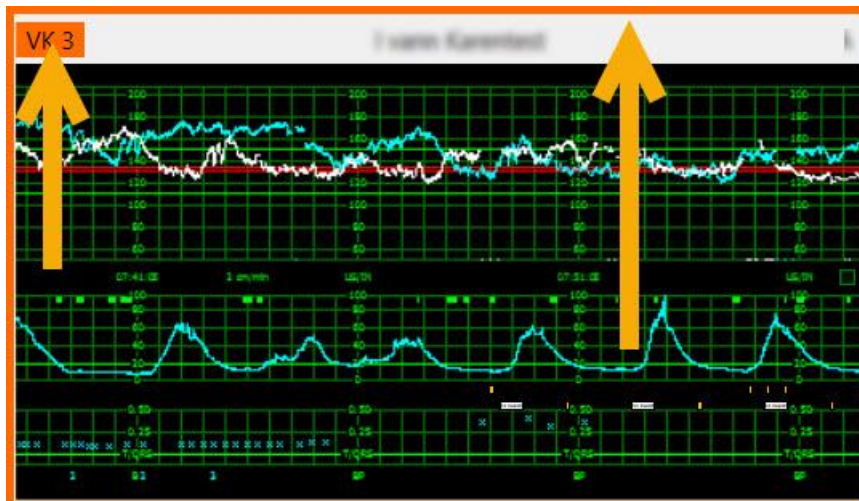
- A red rectangle in the left bottom of the screen, containing location name / number and
- an alarm sound, provided this is enabled by an administrator in the application maintenance, and the user didn't mute the alarm in the part 'View'.

By clicking the red rectangle, the concerning location will be shown enlarged. Hereinafter the functionality as described above (handling alarm location shown in overview) applies.

### Additional information


If an alarm sounds in the Mosos <CTG> Central Monitoring, then the frame around the location in question will turn red. The user can then click on the icon with the alarm bell to switch off the alarm signal (red frame + sound). However, if the situation continues as is (no improvement), then the frame will turn orange. The location indicator in the Mosos <CTG> Console will remain orange. In other words, there is an additional (visual) warning.

*This image is an example to support the explanation. Not an exact representation!*



# Partogram

## Button summary Partogram


 Access to buttons depends on authorisation, settings and in which part of the program the user is working.





[Uterine activity]  
 Contractions per 10 minutes. Chapter '[Mosos - CTG, Partogram](#)'. 

[Station]  
 Vaginal Digital Examination. Chapter '[Mosos - CTG, Partogram](#)'. 

[Dilatation]  
 Vaginal Digital Examination. Chapter '[Mosos - CTG, Partogram](#)'. 

[Position]  
 (Vaginal Digital Examination: type and status) in red. Chapter '[Mosos - CTG, Partogram](#)'. 

[Phases of birth]  
 (For example, Amniotomy, Start pushing) in blue. Chapter '[Mosos - CTG, Partogram](#)'. 

[Medication data]  
 (For example, Infusion or Pain Management) in ochre. Chapter '[Mosos - CTG, Partogram](#)'. 

[Other notes] in green  
 Chapter '[Mosos - CTG, Partogram](#)'. 

[Head position (Presentation)]  
 Chapter '[Mosos - CTG, Partogram](#)'. 

[Doctor's notes]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Midwifery notes]

Chapter '[Mosos <Base> Note definitions, Pregnancy report notes](#)'.



[Enlarge]

Chapter '[Mosos - CTG, Partogram](#)'.



[Print partogram]

Chapter '[Mosos - CTG, Partogram](#)'.



[Close]

Chapter '[Mosos - Base, Start, Login and closing](#)'.



# Partogram

- [Screen content](#)
- [Entering data](#)
- [Filtering](#)
- [Shift time axis \(scroll function\)](#)
- [Enlarge partogram](#)
- [Print](#)
- [Close](#)

## Screen content

You can use the partogram to view the course of the dilation period, the engagement of the baby and the uterus activity.

### *Time axis*

The time is shown on the horizontal axis of the graph. The time axis is automatically synchronized with the computer's clock so that the last hour for which data are known is displayed along with the preceding 11 hours. If the date and time of birth of the baby has been entered, then the partogram continues for another another two hours. With the scroll bar it is possible to look 48 hours in to the past and 12 hours in to the future.

### *Uterus activity*

When performing an extra-uterine pressure measurement using an ultrasound transducer, the number of contractions per 10 minutes is displayed as a red curve.

### *Dilatation / Station*

The right vertical axis shows the following: number of centimetres from 0 to 10 for dilatation and levels -5 through +5 cm for the levels of engagement (Hodge levels 1 through 4 is a possible setting). The dilatation values are indicated as blue circles and the engagement as green squares for the time period in the graph on which the values are entered (this is done using the Notes function).

As soon as the mouse cursor is placed on a square a tool tip appears with the entered data. Double-clicking on the square will open the associated note. The data can then be modified, if necessary. The partogram is then updated.

Connecting lines are placed between the squares so that a curve is created. The dilatation and engagement curves are differentiated by their colour and direction. The dilatation curve is ascending and the engagement curve is descending.



A horizontal accessory line is displayed at a height of 3 cm until a dilation of 3 cm or more has been reached. See '[Helpline active phase](#)'.

### *Head position (Presentation)*

At the bottom of the partogram icons are shown with the position of the skull with respect to the pelvis. The icons are displayed in the graph at the point which the values are entered (through the 'vaginal examination' note).

The icons are only displayed if the field '(de-)flexion' in that note contains the value 'occiput' or 'vertex'. Use the button [Skull position] to show/hide the icons.

### *Helpline active phase*

An accessory line is displayed at a height of 3 cm dilation. This line reflects the boundary between the latent and active phases of the labour. The accessory line disappears as soon as a dilation of 3 cm or more has been achieved. At that point, the action line will appear. The alert line will also appear (see next paragraph).

### *Alert and action line*


The alert line is a dotted black line that is automatically displayed when the dilation value is at least 3 cm. The action line is a solid black line that is also displayed automatically, four hours later. Both lines run parallel to each other with a slope of 1 cm/hour as the normal value.

For a dilation period that runs a normal course, the dilation curve will more or less follow the slope. If the dilation curve crosses the alert or action line, then the dilation period is faster or slower than the normal value.

### *Birth line*

The birth line is a dotted blue vertical line that is automatically displayed when the date and time of the baby's birth is entered in the 'Birth phases' sub-tab, which can be found in the 'Patient/birth/child data' function.

Or, if this function is not available (this applies to non-Dutch clients without Mosos <P>) by

pressing  in the partogram. A pop-up will appear where the date and time of the birth can be entered.

The current calendar date will be entered as the date of birth by default but can be overwritten manually (only with a past date).

### *Position, Birth phases, Medication and Other notes*

The data regarding Position, Birth Phases, Medication and Other notes are placed into graphs as a coloured square containing the letter of the type of note (P, B, M, O).

The application manager can determine which note templates should be assigned to the Birth Phases, the Medication details or Other notes, or should be adjusted via the programme Mosos <Base> Note Templates (this can be indicated in the selection text

'Belongs to').



The following features are not available in Mosos <CTG> Central Monitoring.

## Entering data

The contraction activity in the graph is based on the tocogram of the CTG. In order to be able to display the other data in the graph, it is necessary to use the notes templates via the 'Notes' function. The engagement, dilation and position (type and status) come from the vaginal examination note. This note is an automatic component of the partogram. All other notes templates must be installed per individual template (by the functional application administrator).

For more information about notes, see '[Notes](#)'.

## Filtering

Using the filter buttons you can determine which of the entered data are currently displayed in the partogram. All buttons are activated (= filter on) by default and all available data are displayed in the graph regardless of the source (medical or midwifery/nursing).

The display can also be limited by manually deactivating buttons if desired. The following filter buttons are available:



[Uterine activity], contractions per 10 minutes



[Dilatation] (Vaginal Digital Examination)



[Station] (Vaginal Digital Examination)



[Position] (Vaginal Digital Examination: type and position) in red



[Phases of birth] (For example, Amniotomy, Start pushing) in blue



[Medication data] (For example, Infusion or Pain Management) in ochre



[Other notes] in green



[Doctor's notes]\*



[Midwifery notes]\*



[Head position (Presentation)]



\*If no distinction is made between doctor's and midwifery notes, the associated filter buttons will not show in the partogram. No button will appear [Notes]! By default, the partogram will show all the entered notes. For more information, see chapter '[Mosos <Base> Note definitions, General information](#)'.

The contents of the note are displayed via a tooltip text. By double-clicking on a coloured block, the accompanying note is opened and it is possible to make changes.

### Shift time axis (scroll function)

The user can shift the time axis of the partogram using the scrollbar at the top of the partogram.

The user can move a maximum of 48 hours back in time and 12 hours into the future from the starting position.

### Enlarge partogram

By clicking the button [Enlarge] ore clicking twice on the partogram, the partogram will open in a new window. This window can be maximised if necessary.



### Print



Pressing the button will print out the partogram on paper.

First select the desired printer via the Programme menu and the 'Select printer' option.


You can only print the curves for contraction activity, engagement and dilation and the lines (alert action and birth line).

Active filter buttons are taken into account during printing.

The partogram will be printed out as it is displayed on the screen, with the exception of the coloured squares with the letters underneath.

### Close



Click on  to close the partogram and return to the previous operation.

## Remote Care

### PregnaOne

- [Mosos <CTG> Console](#)
- [Overview screen Pregnabit Pro CTG recordings](#)
  - [Fields and buttons in the overview screen](#)
- [CTG review](#) (Remote Care )
- [Additional information](#)

De Pregnabit Pro<sup>®</sup> is a mobile device with which pregnant woman can make CTG registrations themselves. These registrations can be read and reviewed using a connection in Mosos <CTG> Console. This service is called Mosos Remote Care (Mosos RC).

#### Mosos <CTG> Console

Each Pregnabit Pro device has its own identification number. This number can be found on the back of the device. The number corresponds to the location of the overview screen of the Mosos <CTG> Console. Example: Device number is 002038. Associated location is 2038.

In practice, this is how it works: You assign the Pregnabit Pro device (ID number 2038) to patient X and connect this patient X in the Mosos <CTG> Console to the associated location RC2038. A PIN code is created automatically, which the patient will need to log in to the Pregnabit Pro device. You can find this PIN code in the 'Recording info' window.



#### PIN code

The PIN code remains valid for as long as the patient is connected to the location. After disconnecting, the patient has two options:

- Keep PIN code: The location remains empty, and patient X is connected to this location again. Then the PIN code is still valid, because the Pregnabit Pro device is still connected to this patient in the PregnaOne software.
- New PIN code: After disconnecting patient X, patient Y can be connected to the relevant location. If patient Y is disconnected and patient X is reconnected to this location, patient X receives a new PIN code. The reason is because in the meantime, the Pregnabit Pro device was connected to another patient (Y) in the PregnaOne software.



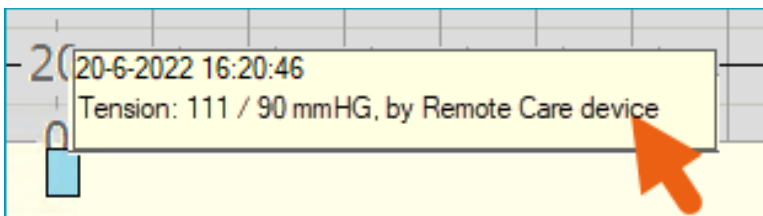
- Connect the patient to the associated location when you give her the case. You can immediately give her the PIN code that she will need to log in to the Pregnabit Pro device. Disconnect her when she returns the case. In this

way, the overview screen in Mosos <CTG> Console remains up to date, and you know which case is with which patient.

- The cases are thus connected to a location. This is a fixed data. When additional cases are provided, they must be connected in the Mosos <CTG> Console to an associated location. The supplier must carry out this step.

As soon as a connected patient makes a CTG recording, it appears automatically in the Mosos <CTG> Console. Regular checks are done of whether new recordings have appeared, and the signal is refreshed every 18 seconds after receipt.

Once the patient has finished making the CTG recording, she can also measure her blood pressure (depending on the agreements made). These measurement data are sent concurrently with the recording to the Mosos <CTG> Console. A blue square becomes visible in the CTG strip. Move the mouse over it to display the data.



When Mosos RC is used, the [Remote Care] button becomes visible in the tool bar. The status of the received Remote Care recordings is displayed on the button.



There are new / not yet reviewed Remote Care CTG recordings. Regular checks are done of whether new recordings have appeared, and if so, they are downloaded.



All Pregnabit Pro CTG recordings currently present are viewed (with/without entered review).


It is possible to display an additional, eye-catching notification when new recordings have been received. Go to 'Options' in the toolbar and tick 'Let the Remote Care button flash if there are newly received CTGs'. When new CTG recordings are received, the [Remote Care] button will flash.



This notification is set individually for each Console and is off by default.

## Overview screen Pregnabit Pro CTG recordings

By clicking on the [Remote Care] button, the overview screen opens which lists all the received Remote Care CTG recordings.



It is standard for unreviewed CTG recordings to be on display for 7 days. Do you want to review further back? Then adjust the date in the 'Start date' field.

Mosos <CTG> Console - [Unreviewed Remote Care CTG's]

Selection

Start date   Also display reviewed Remote Care CTG's

Patient number	Name	Start recording	Duration	Reviewed
		25-06-2019 10:18		no
		17-06-2019 10:18		no

Viewed (disable notification about newly received CTGs) Status View CTG Close

The screen can also be opened via the toolbar. To do this, go to 'Data' and click on [Remote CareCTGs].

### Fields and buttons in the overview screen

#### *Start date*

By adjusting this date, the overview can be lengthened/shortened.

#### *Also display reviewed Remote Care CTGs*

By ticking here, the already reviewed CTG recordings will be displayed. This setting is only valid on the computer where the checkmark was placed.

#### *Patient data*

Patient number and the patient's full name (taken from the HIS).

#### *Start recording*

Date and time of start of displayed recording

#### *Duration*

Duration of the recording (hours/min/sec).

#### *Reviewed*

Has the recording been reviewed (yes/no)?

#### *Seen (disable notification about newly received CTGs)*

If the [Remote Care] button displays a red exclamation mark, this option is visible. By ticking

this option, the red exclamation mark disappears and is replaced by a green checkmark. Use this option when a red exclamation mark must appear again at the moment that a new recording is received.

#### [Status] button

This shows you what the last successful import attempt (including reason) was. If an import attempt fails, it will be displayed here. The screen can also be opened via the toolbar. To do this, go to 'Data' and click on 'Remote Care status'.

#### [View CTG] button

Select a recording in the overview and click on this button to display this recording and ultimately review it.

#### [Close] button

Click here to close the screen and return to Mosos <CTG> Console.

### CTG review (from the overview screen Remote Care)

1. Click on the [Remote Care CTGs] button in the Mosos <CTG> Console to open the overview screen.
2. Adjust the date in the 'Start date' field if needed.
3. Select the CTG recording to be reviewed and click on [View CTG].
4. The recording opens in a new screen.
5. Click on the [Review...] button and then on [New].
6. Log in (this depends on the settings).
7. Then the 'Review' screen appears. Enter the information here and click on [OK] to save it.
8. Click twice on [Close] to close the recording and return to the overview screen.
9. Repeat steps 3-8 if more recordings must be reviewed or close the overview screen to return to the Mosos <CTG> Console.

### Additional information


The Remote Care CTG recordings can be found and viewed at several places in the Mosos modules. The PregnaOne recordings can be recognised by the fact that 'Location' always contains the text 'RC'.

A Remote Care icon is also displayed in screens such as “Review CTG” and “Recording information”, if this involves a PregnaOne recording or location.



In the Mosos <CTG> Console, using the *‘Review/print CTG’* function, via the *pregnancy report notes* and in the *Overview of unreviewed CTGs*. The associated buttons:



 To reveal the Mosos Remote Care (e.g. *PregnaOne*) CTG recordings in the ‘Overview of unreviewed CTGs’, the ‘All supervisors’ or ‘Not assigned’ option must be selected in the ‘Supervisor’ field.

In Mosos <O> the recordings are found under the ‘Research data, CTG’ sub-tab. Here, too, the text ‘RC’ is visible in ‘Location’.

For more information about Mosos Remote Care, we refer you to the [ICT HCTS](#)® website.

# PregnaOne: Streaming

- [Differences](#)
- [Properties](#)
- [Functionality](#)

In addition to the existing solution for retrieving Remote Care CTG recordings after they have been recorded (or viewing them live in the PregnaOne portal), it is now also possible to stream CTG recordings to Mosos <CTG> Console and Mosos <CTG> Central Monitoring.

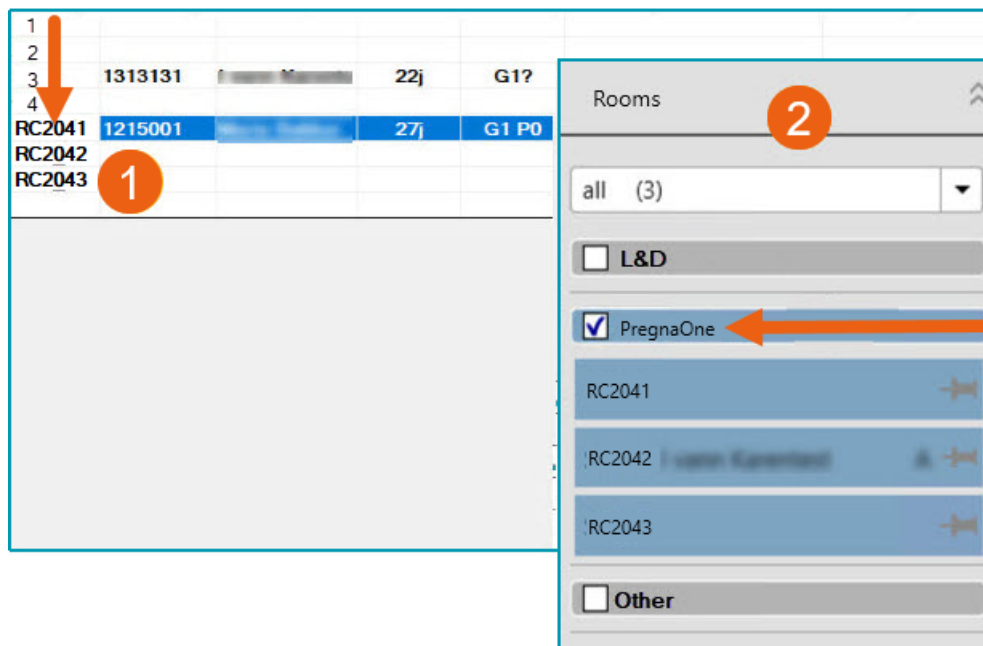
## Differences

The differences between a CTG recording received via a cardiotocograph in the hospital and a streaming PregnaBit Pro recording are as follows:

- An update of the live stream (PregnaBit Pro) takes place once every 18 seconds. A CTG recording from a cardiotocograph in the hospital is updated every second.
- There is a delay between the recording on the PregnaBit Pro device and the signal displayed in Mosos Comfort.
- The PregnaOne recording in Mosos relies on a web server. Any problems with this web server could result in difficulties streaming the CTG.

## Properties

- PregnaOne streaming has its own locations within Mosos <CTG> Console (1) and its own section within Mosos <CTG> Central Monitoring (2).



- As soon as the patient starts making a PregnaBit Pro recording at home (or at another

location), the relevant recording is automatically displayed at the associated location. The number of locations is equal to the number of Pregnabit Pro devices.

- The Pregnabit Pro device cannot be used for CTG recordings in a multiple pregnancy.

## Functionality

The following functionalities are available for the Pregnabit Pro recordings that are streamed to Mosos <CTG> Console;

- The parameters FHR/TOCO and MHR are displayed.
- The ‘No alarm’, ‘FHR signal loss’ and ‘FHR limit values’ alarm settings are available. For more information about alarms/settings, see the [‘Mosos CTG, Console, Alarm Settings’](#) chapter.
- The CTG can be viewed during the recording via the [“Review CTG”](#) function.
- The “Review CTG” function can also be used to display the [CTG parameters](#) (e.g. STV and baseline).
- A [review](#) of the CTG recording can be added.
- In the running CTG, the [STV](#) can be shown.
- If a link exists between Mosos CTG and the hospital’s EPR, it is possible to export the Pregnabit Pro recordings to the EPR. This setting can be created by the supplier.

## Mosos - CTG - Emergency procedure

- [Network failure](#)
- [Where to expect the emergency procedure](#)
- [Start of Mosos - CTG - Emergency procedure](#)
- [Features](#)
- [Available functionalities](#)
- [Disconnect](#)
- [If the network is available again](#)

Mosos <CTG> Central Monitoring handles the display of CTG recordings. It allows users to follow multiple recordings, from different locations, simultaneously. The hospital computer network in combination with the central Mosos server take care of this functionality.

If there is discontinuity in the accessibility of the server, for example by network failure, Mosos <CTG> Central Monitoring can't connect to the relevant files, so the recordings can't be displayed. In order to guarantee the continuity a procedure is developed; Mosos - CTG - Emergency procedure.

### Network failure

In general the IT department of a hospital gives information on cause/effect and solution to network failure. Network failure is recognizable by the following message: 'This program has performed an illegal operation and will be shut down'.



This message is not specific to network failure and may also occur in other types of failure.

### Where to expect the emergency procedure

Mosos - CTG - Emergency procedure is installed on the computer that handles the acquisition of the CTG signals. Only the computers connected to this computer, will function during the emergency procedure. It is advisable to mark this computer with a tag/label.



All workstations with Mosos <CTG> Console / <CTG> Overview / Central Monitoring will quit! Start the thermal paper recording (CTG device). Make notes on the paper strips (later these can be entered in 'Notes' in the program).

### Start of Mosos - CTG - Emergency procedure

The Mosos - CTG - Emergency procedure starts without any intervention of the user. Once the network is unresponsive or accessible, a message will show on screen. Close the message by clicking at [OK]. Then Mosos - CTG - Emergency procedure will take over (automatically) the function of Mosos <CTG> Central Monitoring.



Always make a note (or take a screen shot) of these messages and inform the IT department (follow hospital rules).

## Features

The external characteristics of Mosos - CTG - Emergency procedure:

- In the title bar the words: 'Network not available'.
- The bars above the location positions are red instead of blue.
- The names of the linked patients remain visible.
- The current CTG recordings are normally displayed.

## Available functionalities

Some settings which are related to the display of all CTG recordings can be edited from this screen. Move the mouse pointer to the title bar and automatically a 'button bar' will appear.

[Number of displayed locations]

Using these buttons you can divide the overview as desired into 2, 4, 6, or 9 positions. The possibilities depend on the number of locations in the location overview. If the location overview has 3 locations, then the CTG overview can contain a maximum of 4 positions.



[Restore location positions]

The order of the locations is as follows: The first (uppermost) location of the location overview is located in the first position (upper left). The second location is located in the second position, etc. The order can be disrupted, for example by dragging the location indicators. The order is restored by clicking the [Restore location positions] button.



## Disconnect

As long as Mosos <CTG> - Emergency procedure is running, it is only possible to disconnect patients.

1. Click on the [mutation button](#), on the left to the patients name (in the red bar above the location). A window will appear.
2. Click [Disconnect patient].



3. Answer the question (Do you really want to disconnect/unlink this patient?) with [Yes]. Click [No] to return to Overview.

It is also possible, just like in Mosos <CTG> Overview to move a CTG recording to another location and to adjust the number of locations.



Other functionalities in Mosos <CTG> Overview / Central Monitoring, like alarm settings or show partogram (if available), cannot be used. Furthermore it isn't possible to connect new patients.

### If the network is available again

Mosos will automatically search regularly for the network. When the Mosos server is available again (through the network re-connection), Mosos <CTG> Console will automatically start and the Mosos <CTG> - Emergency procedure will be closed. All functions can be used normally again. Mosos <CTG>Central Monitoring must be launched manually!

Following recovery of the network, the current CTG signals are again displayed (a new recording is started). The complete CTG for the linked patients is stored as a whole (the parts before, during and after the failure are combined).

When using the 'Review / Print CTG' function, the completed CTG is displayed.

## Help & Support

### Data protection GDPR

This describes the measures that were implemented in order to make the Mosos software compliant with the European General Data Protection Regulation (GDPR).

Standard ISO 27001 was used as a guideline.

#### *Creation of audit log files*

- Mosos (from version 12.13 onwards) features audit logging, which records all activities during which sensitive personal information is created, viewed, copied, moved, modified or deleted. The following types of events are recorded: system, users, patients and (audit) logging. For more information, see the chapter on '[Mosos - Base, Base General Maintenance, ATNA logging](#)'.
- Mosos currently has no limit regarding the retention period of the audit logging.

#### *Control of system use*

- Audit logging can be used to analyse activities in Mosos programs.
- Audit logging can be exported to CSV format through the Mosos Maintenance program. For more information, see the chapter on '[Mosos - Base, Base General Maintenance, ATNA logging](#)'.

#### *Protecting information in log files*

- The content of audit logging (listed in section 1) is saved in encrypted format in a separate part of the Mosos database.
- Mosos has its own built-in system account for audit logging writing. This account is not known to users, administrators or application or system administrators of the hospital. The account is also protected from manipulation.
- The policy regarding the database size and creating backups of the logging is the responsibility of the hospital. ICT HCTS can assume an advisory role in this regard.

#### *Recording malfunctions*

- The MososWeb (maintenance) page offers several diagnostic tests that can check the correct functioning of the system, important components and security. The results of every test run are written to a text file.
- Mosos offers application logging. This logging records the following types of events: "info", "warning" and "error". This logging can be used to help make diagnoses when software errors occur. The logging can be accessed by every user.

#### *Synchronisation of system clocks*

- Because the current time is displayed in some Mosos modules, it is important for the

system clocks of servers and workstations at the hospital to be synchronised and show the correct time.

- Use the UTC time zone or the local standard time.

#### *Access security*

Users can be created and authorised to use the Mosos system at Mosos <Base> General Maintenance. For more information, see the chapter on '[Mosos - Base, Base General Maintenance, Users](#)'.

#### *Validation of input data*

Mosos has built-in constraints that ensure that the contents of certain input fields in Mosos are validated. This information includes physical characteristics and functions, such as weight, heart rate and temperature. Values can be entered in some fields, but if certain limits are exceeded, a warning will be displayed, such as the following: “This value appears to be too high (higher than nn). Are you sure?”. For other fields, the input may not be accepted in the event of a violation or illogical input of values. The system will notify the user of this.

#### *Cryptographic administrative measures*

- The MososWeb environment and other Mosos web applications can be secured with SSL. ICT HCTS advises that hospitals do this with an SSL certificate of a trusted publisher.
- User data and authorisations in the database are secured from unauthorised modification.
- The audit logging described in section 1 is saved in the database in encrypted format.
- Private keys are encrypted in Mosos.

#### *Password or PIN code*

- If Mosos is linked to an Active Directory/LDAP environment, then the password policy can be enforced via Active Directory/LDAP.
- If the hospital has no Active Directory/LDAP link, then Mosos will enforce complex passwords itself (starting with version 12.13). Mosos also has functions regarding password length, expiration, number of incorrect login attempts, etc.

#### *Anonymising patient data*

From Mosos 12.13 onwards, patient data can be anonymised (for testing purposes). To do this, [contact](#) an ICT HCTS System Engineer.

## Hardware and software requirements

### Mosos Comfort

Mosos\* Comfort is a reliable and user-friendly obstetric data management system that allows you to focus your full attention on patients at the moment they need this attention most.

Mosos <CTG> provides a continuous overview of relevant aspects of the actual cardiogram, such as foetal heart rate, toco and various maternal parameters. With Mosos <CTG>, CTG information can be disseminated in real time to show what is happening in multiple delivery rooms at the same time. CTG recordings are accessible to authorised personnel both inside and outside of the hospital or even from home.

Mosos <CTG> was developed to communicate with various types of CTG monitors that have the 'HP50' - or 'STAN®' - protocol.

The Mosos Comfort solutions vary from one PC to systems with multiple servers. The modular structure of the Mosos Comfort obstetric data management system offers a wide range of configurations to meet client requirements.

### Intended Purpose

The aim of this chapter is to inform all those within your hospital/clinic who are involved in the installation of the Mosos Comfort system about the (minimum) knowledge, hardware and software\*\* settings necessary to install the system.

### Intended Users

This information is intended for anyone who is involved in implementing Mosos Comfort.

*\*Mosos; MOnitoring and Storage of Obstetrical Signals / The official product name of 'Mosos Comfort' is 'Mosos'. To differentiate it from the other products in the Mosos line, the term 'Mosos Comfort' is used in this manual. MososNXT products have their own manuals*

*\*\*Please refer to the installation documentation for the most up-to-date information regarding the hardware and software requirements. This documentation can be requested via our [support desk](#).*

## Hardware requirements (server and client)

It is possible to install Mosos Comfort on dedicated physical servers or Virtual servers such as VMware or HyperV. It is also possible to install Mosos Comfort on existing clients.

At least the following components are needed for each client or server:

- Screen (minimum resolution 1280 x 1024)
- Keyboard
- Mouse

## Server requirements

There are various ways to configure and install Mosos Comfort.

The Mosos Comfort software and database can be installed on the same server, on multiple servers or in an MS SQL Windows® cluster environment.

### Hardware requirements for virtual servers

#### Mosos Comfort with Microsoft® SQL Server 2017 (or higher) installed on the same server

System functions	Minimum	Recommended
Processor	3 Virtual CPUs	4 Virtual CPUs
Network interface	100/1000 MBit/s	100/1000 MBit/s
Memory	8 Gb	24 Gb
<b>Graphics</b>		
Resolution	1280 x 1024	1920 x 1080
<b>Storage*</b>		
Partitions	C:\ = 75 Gb D:\ = 150 Gb	C:\ = 75 Gb D:\ = 250 Gb

\* One hour of CTG signal data requires 80 Kb of disc space.

#### Mosos with SQL database installed on seperate server

System functions	Minimum	Recommended
Processor	2 Virtual CPUs	4 Virtual CPUs
Network interface	100/1000 MBit/s	100/1000 MBit/s
Memory	6 Gb	8 Gb
<b>Graphics</b>		
Resolution	1280 x 1024	1920 x 1080
<b>Storage*</b>		
Partitions	C:\ = 75 Gb D:\ = 200 Gb	C:\ = 75 Gb D:\ = 200 Gb

\* One hour of CTG signal data requires 80 Kb of disc space.

### Requirements for servers and third parties

- Minimum: Windows® Server 2016 . Recommended: Windows® Server 2019 or higher
- Minimum: Microsoft® SQL Server 2017 Standard. Recommended: SQL Server 2019
- .Net Framework 4.8
- Minimum: Internet Information Services 8
- HTTP traffic

### Security recommendation

- HTTPS, port 443
- SSL certificate, issued by an accredited institution

# Client requirements

## Client hardware requirements

Mosos <CTG> clients can be divided into 2 types:

- Central acquisition client (Acquisition can also be installed as a service on the Mosos server)
- Administrative client

The hardware specifications for the two clients are the same.

### Client with Windows® 10 build 22H2, Windows 11 build 23H2 or higher

System functions	Minimum	Recommended
Processor	Core i3 processor or equivalent	Core i5-processor of gelijkwaardig
Network interface	100 MBit/s	100/1000 MBit/s
Memory	8 Gb	16 Gb
<b>Graphics</b>		
Resolution	1280 x 1024	1920 x 1080 or higher
<b>Storage*</b>		
Storage controller	SSD	SSD
Hard disks	80 Gb	80 Gb
<b>Ports</b>		
Audio	Audio with speaker amplification	
Com-poort	1x RS-232 serial port (for acquisition purposes)*	
I/O-ports	2 USB, 1 external monitor, RJ-45 (NIC)	

\* If the RS232 port is missing, it is possible to use a 'USB-to-serial' converter approved by ICT HCTS.

## Minimum client software requirements

- Windows 10®, build 22H2 Windows 11 build 23H2 or higher
- .Net Framework 4.8
- Browser: Microsoft Edge®, Chrome® or equivalent

## Software requirements

### Microsoft®-operating system licenses

A Microsoft® Client Access Licence, or CAL, is required to install/use Mosos Comfort. A CAL is not a software product. Rather, it's a licence that gives a user the right to obtain access to the services of a Microsoft server.



The CALs must be purchased by the client and are the responsibility of the client.

### Microsoft SQL Server

#### Microsoft®SQL Server-version

Mosos <CTG> requires: Microsoft SQL Server 2017 or higher.

Microsoft SQL Server can be installed as an independent entity or as a clustered configuration. It is also possible to install the Mosos database on a shared SQL Server configuration.

The SQL verification level must be set to 'Mixed mode'.

#### Microsoft SQL Server-licences

There are several options for the licensing of Microsoft SQL Server. You can choose from one of the following options:

- Processor licence: This model requires a licence for each physical or virtual processor to which access can be obtained through an OS environment with SQL Server software. No licences for device or user client access (CALs) are needed for this licence.
- Server plus user CALs: With this model, a server licence is required for every OS environment on which a copy of SQL Server software is executed, as well as a CAL for every user who has access to a server with SQL Server software.



The client is responsible for the availability of the licences.

## Virus scanner exceptions

Virus scanner exceptions should be added to the virus scanner solution that is used in the hospital.

Directories to be excluded:

- \\<server>\<MososShare>\MososCom\\*. \* including subdirectories and files
- \\<server>\<MososShare>\Programs\\*. \* including subdirectories and files
- MososWeb folder on the server in c:\inetpub\wwwroot\
- <local installation path>\Programs\\*. \* including subdirectories and files
- <local installation path>\LocData\\*. \*
- Acquisit.exe
- CtgSource.exe

# Network infrastructure

## Infrastructure for Mosos Comfort

Mosos Comfort must be installed in the hospital’s Active Directory structure. Mosos Comfort can be installed in various network segments (VLANs).

The Mosos Comfort server and clients must have a domain membership. Mosos Comfort requires a share on the Mosos Comfort server. The Mosos Comfort functionality uses its own verification method as standard. It is possible to bring about an LDAP or other user verification connection, but research is required for this and will result in individual costs for all activities that are necessary in order to configure the alternative verification method.

## Specifications

Mosos Comfort network specifications	
Network type	Windows <sup>®</sup> -network, Active Directory
Connection mode	100/1000 MBit/s, full duplex TCP/IP
IP address range	As required
Subnet mask	As required
Fixed (non DHCP) address required	<ul style="list-style-type: none"> <li>• For the Mosos &lt;CTG&gt; server</li> <li>• For serial-to-Ethernet devices</li> </ul>
Name resolution	DNS
Domain	Hospital domain, Active Directory

## Additional requirements

- No network hub may be installed
- The distance between network nodes may be a maximum of 100 metres.
- The network bandwidth must be stable and continuous
- Network router: firewall > If a firewall is used with virus scanner, traffic between Moxa devices and Mosos should be included as an exception.

## Reserving ports

The following ports are used in addition to the Microsoft<sup>®</sup> server port reservations:

Application protocol	Protocol Ports	
SQL via TCP	TCP	1433
Licensing	TCP	80
HL7-connections	TCP	Adaption*
Moxa serial to Ethernet**	TCP	950 to 965

Moxa serial to Ethernet**	TCP	966 to 981
Moxa diagnosis**	UDP	4800
Moxa configure firmware**	TCP	4900

*\* Port number can be setup based on the customers infrastructure and wishes/setup.*

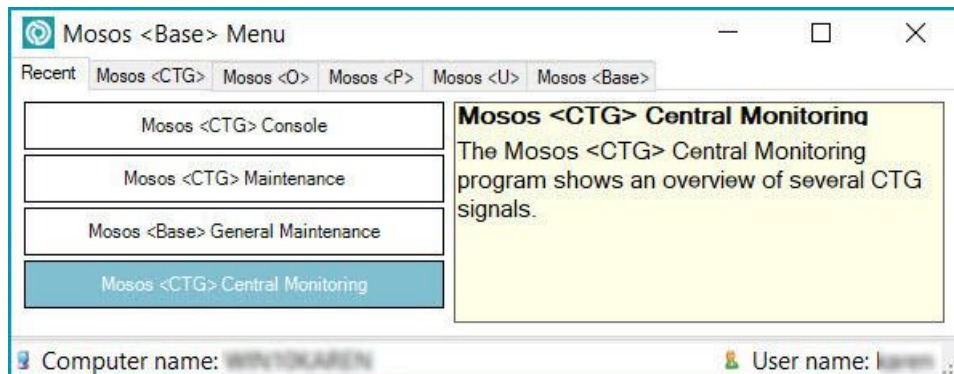
*\*\*Only required when serial-to-Ethernet converters are used.*

## Mosos <Base> Menu

Mosos Menu is a program which Mosos users can use to quickly and easily start the Mosos software from their workstation.

It is also possible to request concise information from the Mosos software. Mosos Menu contains the entire Mosos suite.

## Mosos <Base> Menu; Screen content



### Tabs

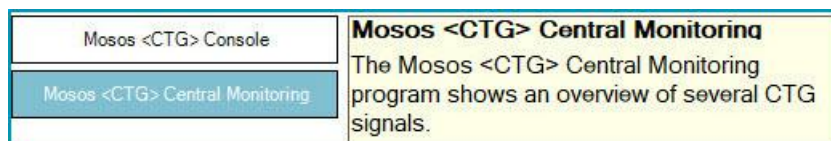
The first tab of Mosos Menu – Recent prog. – contains the four most recently opened programs of the logged-in user. This is computer-dependent. The next tabs display the main programs of the entire Mosos suite, from Mosos <CTG> to the various general programs such as Mosos General Administration. Each tab contains various modules belonging with the main program.

### Buttons

#### Open

By clicking on a button with a module name, the module in question will start.

The user should hover the mouse over the name of the module in order to display information about a module. The label will turn green and the summary information about the module in question will be displayed (if present) in the box on the right.



#### Rights

If the button is greyed out, the user has no rights to start the module.



## Mosos <Base> Menu; Mosos Setup installation

When Mosos Menu is started on a client computer, the system checks whether the Mosos installation program 'Mosos Setup' has been executed.

If this is not the case, then the following notification will appear:

“The MososSetup installation could not be found, Mosos applications cannot run. Please contact your system administrator to run the MososSetup installation package.”\*

*\*The MososSetup installation could not be found, Mosos applications cannot run. Please contact your system administrator to run the MososSetup installation package.*

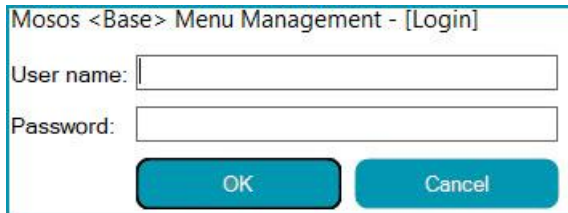
## Mosos <Base> Menu Management

Mosos <Base> Menu Management is the management program for Mosos Menu.

The Mosos <Base> Menu Management program offers the system administrator the possibility of configuring the various Mosos license codes on different computers.

## Mosos <Base> Menu management; Start

When the Mosos <Base> Menu Management program is started up, the log-in screen will be displayed. The user must log in here.



Mosos <Base> Menu Management - [Login]

User name:

Password:

OK Cancel

When the system is unable to find the mapping to the Mosos software an error message is displayed.

### *Example*




# Mosos <Base> Menu management; Tab Computer settings

- [Entering and Changing Client Data](#)
- [Users](#)
- [Autostart](#)
- [Scrolling](#)
- [Saving Changes](#)

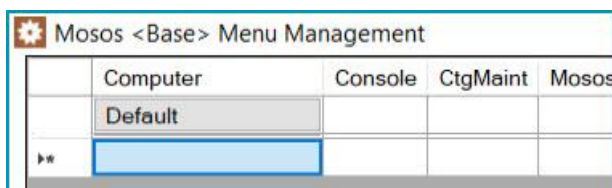
## Entering and Changing Client Data

### Adding computer names

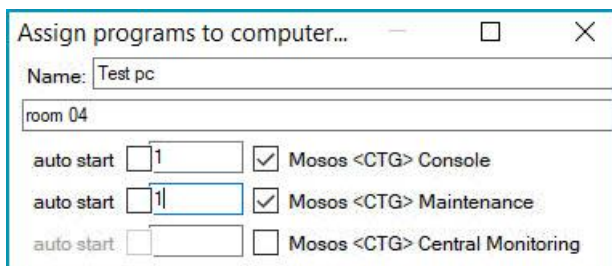


Always leave the top line “default” in place, do not change or delete this.

Use your mouse to click on the next empty line on the blue cell to add a computer name.



A new screen will open, in which you can enter the computer name and the desired licenses.

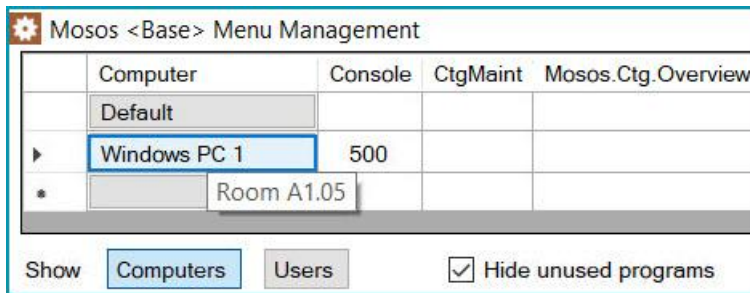


Name: Add the computer’s own name here, as it is stated in Windows. A description can be added in the line below.

Tick the programs that the computer should be allowed to run.

Change the starting number if necessary, the roaming license “500” is the default option.

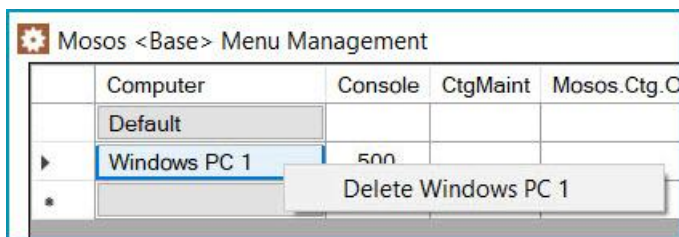
After entering the details and clicking on [OK], the computer will appear on the list with licenses.



Clicking on the computer name again will open the screen again and changes can be made if necessary.

### Deleting a Computer name

To delete a computer name, place the mouse cursor in the 'Computer name' row of the computer to be deleted from the list. By clicking on the right-hand mouse button a popup menu will appear. Select the 'Delete .....' option here (where ..... is the computer's name).



### Entering Concurrent License Parameters

If you have Mosos Concurrent licenses (500 numbers), you can set the value to "500". This is relevant to, for example, Citrix/ Terminal service clients.

It can also be used for computers that do not need to use a fixed starting number.

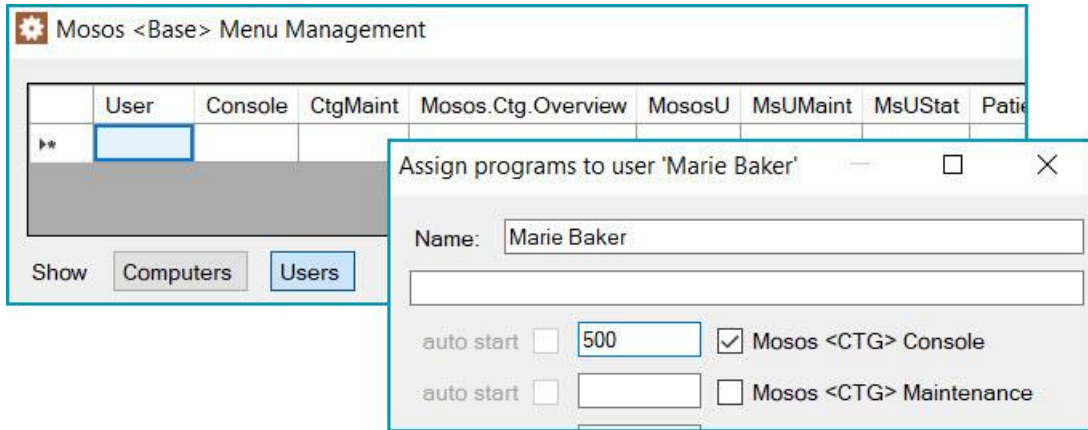
Some programs, such as Mosos CA can only be started with a 500 number.


### Users

Instead of computer names, it is also possible to define users. Click on the [Users] button to do this.

Use your mouse to click on the next empty line on the blue cell to add a new user. A new screen will open, in which you can enter the user and the desired licenses.

Name: Add the user's own name here, as it is stated in Windows. An extra description can be added in the line below.

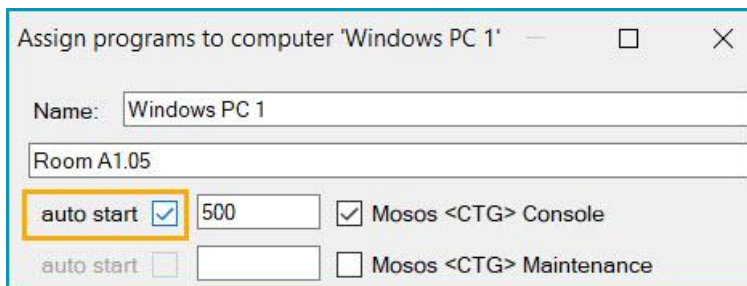


 Only roaming licenses (500 numbers) can be issued. Fixed licenses are reserved for workstations.

### Autostart

The Autostart function makes it possible to automatically start up a certain Mosos program as soon as the user starts up the Mosos Menu.

Place a tick next to “auto start“ for this (for the relevant program).



In the summary of computers and licenses, the auto start numbers can be recognised by their bold letter type.

If no license number has been entered into the cell it is not possible to configure an Autostart.

An “auto start“ can be cancelled by removing the tick.

It is possible to start up multiple Mosos programs, one after the other, on each computer.

### Scrolling

If the list of licenses is longer than the space available in the program, you can move the “screen” vertically by making use of the scroll bar (to the right of the screen).

This list can be made shorter by selecting the tick “Hide unused programs”, in that case Mosos <Base > Menu Management will only show the programs for which licenses are in use.

## Saving Changes

Changes are only saved after you click on [OK] or [Apply].

- By clicking on [Apply] the changes will be saved and you will be able to continue working with the program.
- The changes will also be saved when you click on [OK]. However, the program will then be closed.
- By clicking on [Cancel], the changes will not be saved.

## Release notes

The release notes include an overview of changes from previous versions (unless otherwise indicated). These changes have been (where applicable) implemented in the manual.

Additionally, a number of technical and functional bugs were resolved during the development of the new versions of the software.



- This overview contains all changes. Depending on the modules the user has access to, the changes are/aren't applicable.
- All images used in this document, contain fictional data.
- The images used in this document are intended to support the explanation and are not an exact representation.

## Hardware and software requirements

Please refer to the installation documentation for the most up-to-date information regarding the hardware and software requirements.

## Release notes 12.14

- [Software version 12.14.17/12.14.18](#)
- [Software version 12.14.16](#)
- [Software version 12.14.15](#)
- [Software version 12.14.14](#)
- [Software version 12.14.13](#)
- [Software version 12.14.11 / 12.14.12](#)
- [Software version 12.14.10](#)
- [Software version 12.14.09](#)
- [Software version 12.14.08](#)
- [Software version 12.14.05 to 12.14.07](#)
- [Software version 12.14.04](#)
- [Software version 12.14.03](#)
- [Software version 12.14.01 / 12.14.02](#)
- [Software version 12.14.00](#)

### Software version 12.14.17/12.14.18

Various technical and functional bugs were resolved with the 12.14.17/12.14.18 release.

### Software version 12.14.16

#### **Mosos <Note> Templates / Module name has been modified**

The name “Mosos <Note> Templates” has been modified to “Mosos <Base> Note definitions”.

#### **Mosos <Base> Note definitions**

*Authorisation level: Administrator.*

The notes editor has been completely renewed and has an improved user interface for defining notes. The way in which notes can be composed has been simplified.

For more information, see the manual, chapter '[Mosos - Base, Mosos <Base> Note definitions, Maintenance; Note definitions](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

### Software version 12.14.15

Various technical and functional bugs were resolved with the 12.14.15 release.

## Software version 12.14.14

Various technical and functional bugs were resolved with the 12.14.14 release.

## Software version 12.14.13

### Mosos <CTG> Console / Automatically starting STV

It is now possible to have the STV start automatically in Mosos <CTG> Console if a patient is connected to a location. Location groups can be configured in Mosos <CTG> Maintenance (under location maintenance) to which this function can be connected.

For more information, see the manual, chapter '[Mosos <CTG> Maintenance, Maintenance; Locations](#)' and '[Mosos - CTG, Console, CTG parameters](#)'.

### Mosos CTG / Review

It is possible to configure the programme so that when you disconnect a patient the CTG review screen appears automatically. The number of recordings that still need to be reviewed at that moment is displayed in the [Overview of unreviewed CTGs] button.



For more information, see the manual, chapter '[Mosos-CTG, Console, CTG review](#)' and '[Mosos-CTG, Console, Overview unreviewed CTG's](#)'.

### Mosos <CTG> Console / Quick Registration

When the 'Quick Registration' function is used, connecting and disconnecting a patient in Mosos <CTG> Console is no longer necessary in order to enter the AT date and/or the gravidity number.

This is a setting that applies to all locations and cannot be changed by the user.

For more information, see the manual, chapter '[Mosos CTG, \(Dis\)connect and moving patient, Connect a patient](#)' or '[Mosos CTG, \(Dis\)connect and moving patient, Disconnect](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

## Software version 12.14.11 / 12.14.12

Various technical and functional bugs were resolved with the 12.14.11 / 12.14.12 release.

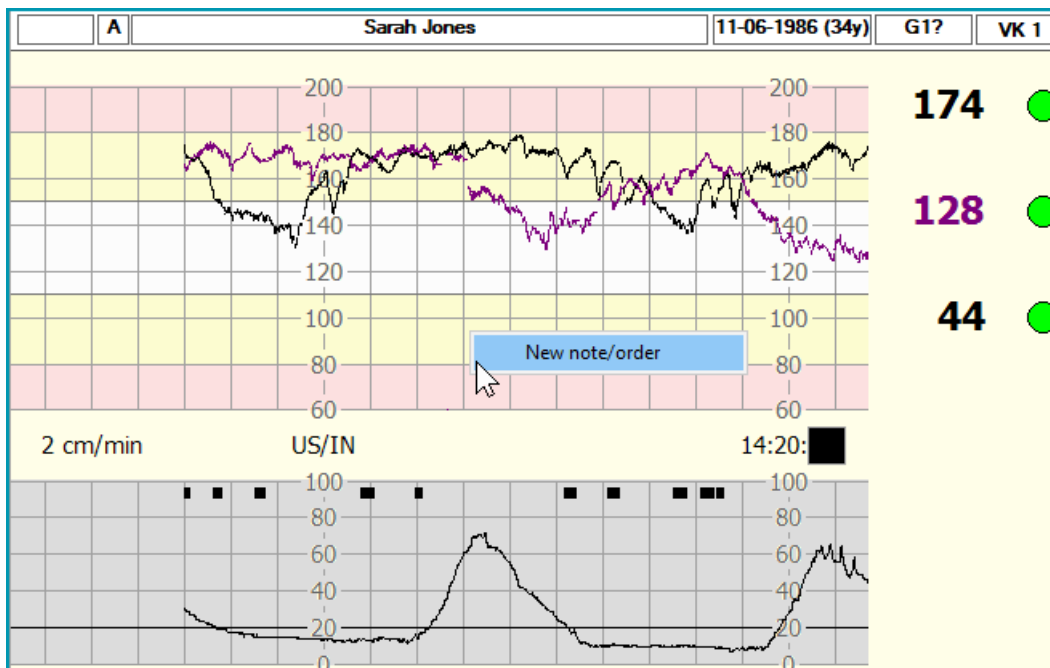
## Software version 12.14.10

### Mosos <CTG> Console / Mouse wheel functionality

In the functionality 'Review CTG', it is now possible to use the mouse wheel to scroll back and forth in a saved CTG recording.

### Mosos <CTG> Console / Add note or order via CTG strip

Using the right mouse button to click on the running CTG strip will open a context menu, which allows the user to add a note/order directly to the file of the patient in question.



For more information, see the manual, chapter '[Mosos <Note> Templates, General information](#)' or '[Mosos Base, Orders, Single order](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

## Software version 12.14.09

### General / Print manual

From this (12.14) version onwards, the Mosos user can print a complete user manual and no longer needs to request a copy from the supplier.

For more information, see the manual, chapter '[Introduction](#)'.

### Mosos CTG / CTG notes and Event markers

A so-called marker can be forwarded by some CTG devices (including STAN<sup>®</sup>). For example, a certain point in the CTG recording can be marked by pressing a button. A note can also be added to this marker if desired.

From now on, these notes/markers (CTG and STAN) will be forwarded to Mosos. In the recording, the notes are visible as blue cells (1) and the STAN markers (2) also display an M in the cell. The notes are added as a “Midwifery note” in the notes overview.



For more information, see the manual, chapter '[Mosos CTG, Mosos <CTG> Console, Console Screen overview](#)'.

### Mosos CTG / SpO2 value

The SpO2 value that is demonstrated in the section with the current values will become blurred over time. This happens to emphasise the fact that the displayed value is no longer up-to-date. The blurring of the value happens in 2 phases (can be set by the supplier). The standard setting is that the first blurring becomes visible after 20 seconds and the second blurring after 60 seconds.

FHR 1 <b>146 (US)</b> ●	FHR 1 <b>(US)</b> ●	FHR 1 <b>135 (US)</b> ●
FHR 2 <b>- (OF)</b> ●	FHR 2 <b>- (OF)</b> ●	FHR 2 <b>- (OF)</b> ●
Toco <b>12 (EX)</b> ●	Toco <b>14 (EX)</b> ●	Toco <b>14 (EX)</b> ●
MHR <b>81 (PU)</b> ●	MHR <b>84 (PU)</b> ●	MHR <b>89 (PU)</b> ●
SpO2 <b>95,5%</b> →	SpO2 <b>95,5%</b> →	SpO2 95,5%

For more information, see the manual, chapter '[Mosos CTG, Console, Maternal parameters](#)'.

## Mosos CTG / Digital alerts, Message to mobile device

In addition to IQ Messenger<sup>®</sup>, Mosos can now also issue alerts to Ascom<sup>®</sup>. Ascom then forwards these alerts to mobile telephones, tablets, etc. For more information, see the manual, chapter '[Mosos CTG, Console, Alarm settings](#)'.

Additionally, a number of technical and functional bugs were resolved during the development of version 12.14.09.

## Software version 12.14.08

### Mosos - CTG / Linking to STAN<sup>®</sup> S41

Mosos can synchronise the current time of the workstation and the patient name/number in STAN (if the relevant STAN S41 is connected).

- The time is synchronised if it differs by 3 minutes or more.
- The patient now no longer needs to be entered manually on the STAN S41.

## Software version 12.14.05 to 12.14.07

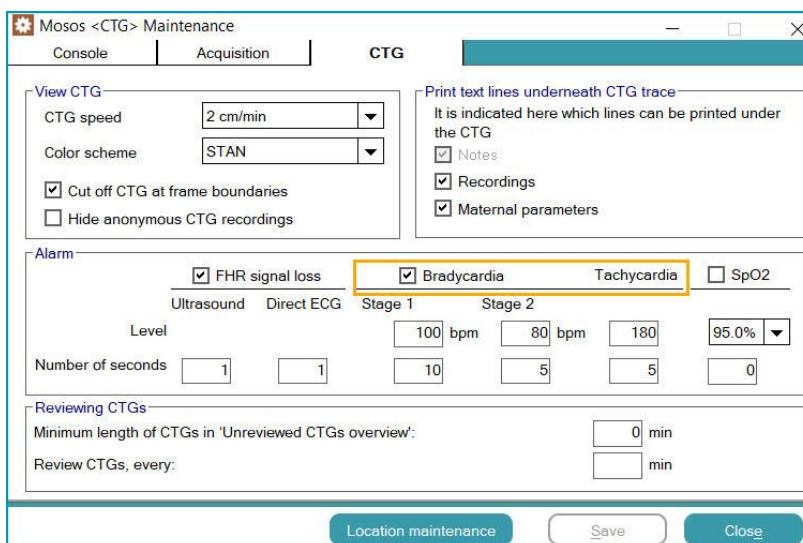
Various technical and functional bugs were resolved with the 12.14.05 to 12.14.07 release.

## Software version 12.14.04

### Mosos <CTG> Maintenance / Alarm settings

Authorisation level: Administrator.

It is now possible to turn off the alarm for Bradycardia/Tachycardia in Mosos <CTG> Maintenance, via the 'CTG' tab. By default, this is turned on for all locations. In order to turn it off for all locations, the check box must be deselected.



The screenshot shows the 'Mosos <CTG> Maintenance' window with the 'CTG' tab selected. The 'Alarm' section contains the following settings:

Level	Number of seconds	Stage 1	Stage 2
100 bpm	10	80 bpm	5
180	5	180	5
95.0%	0		

The 'Bradycardia' checkbox is checked and highlighted with a yellow box. Other checked options include 'FHR signal loss', 'Notes', 'Recordings', and 'Maternal parameters'. The 'Tachycardia' and 'SpO2' checkboxes are unchecked.

For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Maintenance, CTG](#)'.

Additionally, a number of technical and functional bugs were resolved during the development of version 12.14.04.

### Software version 12.14.03

#### **Mosos <CTG> Central Monitoring / Handling alarm (location shown in overview)**

When the alarm goes off in a shown location, only the icon with the alarm bell is displayed. The icon with the loudspeaker (with which the alarm sound can be muted) is no longer displayed.

It is also possible to mute the alarm sound via the side bar (under 'View').

For more information, see the manual, chapter '[Mosos - CTG, Central Monitoring, Alarm](#)'.

Available from software version '12.12' (via update).

Additionally, a number of technical and functional bugs were resolved during the development of version 12.14.03.

### Software version 12.14.01 / 12.14.02

Various technical and functional bugs were resolved with the 12.14.01 / 12.14.02 release.

### Software version 12.14.00

#### **Mosos <Base> General Maintenance / MososWeb**

Authorisation level: Administrator.

In Mosos <Base> General Maintenance, users can be authorised to view a number of MososWeb pages. To do so, check the box for 'MososWeb pages' on the 'Users' tab.

This pertains to the following pages: Diagnostics, Migrations, Licenses overview, Flags and Plugins.

Mosos <Base> General Maintenance - [Modify user settings]

**User data**

Type:

Name:

Login name:

Shortened name:

[Password settings](#)

**Authorisation Programs**

	V	O	A	C	D
Mosos <O>:	<input type="text" value="administrator"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mosos <U>:	<input type="text" value="administrator"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mosos <P>:	<input type="text" value="administrator"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mosos <CTG>:	<input type="text" value="administrator"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

CTG reviews

Mosos <CA>:

Mosos <CS>:

MososWeb pages

Send documents

delete data

report generator

**Other**

	V	A	C	D
Relations:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Institutes:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**General authorisation**

all rights

blocked

deleted

Failed login attempts:

For more information, see the manual, chapter '[Mosos - Base, Mosos <Base> General Maintenance, Users](#)'.

### Mosos - CTG / Review

When the CTG needs to be checked by a second supervisor, this can be indicated in the review note. 'By' is the logged-in user and a second supervisor can be selected at 'Check by'.

Mosos <CTG> Console - [CTG review]

**CTG review**

Relates to CTG until:

Date of review:  Time of review

By:

Check by:  ▼

Show this review in the overview

**Free text**

Text:

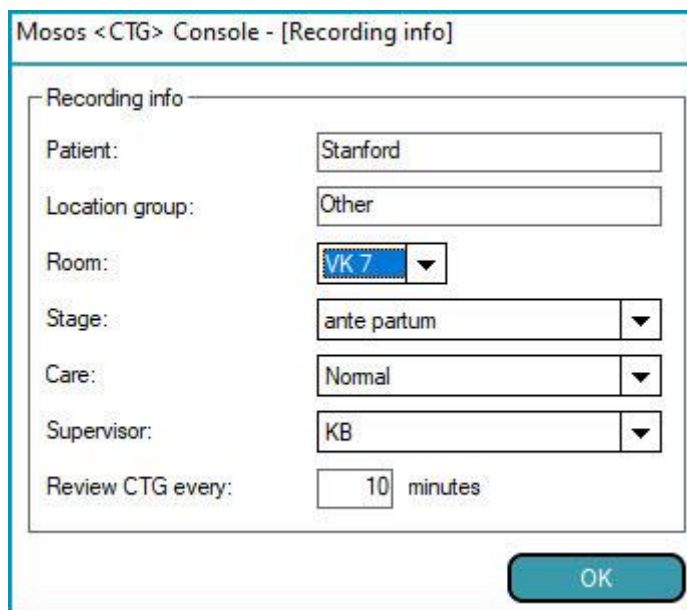
The recording will appear in the second supervisor's overview of unreviewed CTG recordings, and he/she needs to add a review or review the existing check.

For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Console, CTG review](#)'.

### Mosos - CTG / Review interval

It is possible to set up a warning to remind the user that a review needs to be entered. In Mosos <CTG> Console, this can be done in the 'Recording info' screen for each CTG recording. 'Review CTG every.. minutes' can be set to indicate how frequently (in minutes) an optical signal must be given. When linking a patient, this is the default setting in Mosos <CTG> Maintenance.

When setting a time that applies to all recordings, this should be done in Mosos <CTG> Maintenance. On the 'CTG' tab, in the 'Reviewing CTGs' field, every...minutes.



Mosos <CTG> Console - [Recording info]

Recording info

Patient:

Location group:

Room:

Stage:

Care:

Supervisor:

Review CTG every:  minutes

OK

The optical signal highlights the row with the patient's name in yellow. In Mosos <CTG> Console, this occurs in the overview location and at the top of the recording itself (Dual screen/CTG only). In Mosos <CTG> Central Monitoring, the optical warning is only visible above the recording for the patient in question.

7	3785354	Stanford	G2 P1 KB	32w 1d	A	US/IN
---	---------	----------	----------	--------	---	-------



When the patient is selected in Mosos <CTG> Console (i.e. the row turns blue), the yellow highlighting is only visible in the dual screen or the 'CTG only' screen.

For more information, see the manual, chapter '[Mosos - CTG, Maintenance, CTG](#)' and '[Mosos - CTG, Console, CTG review](#)'.

### Mosos - CTG / Console and Central Monitoring, SpO2

The SpO2 displayed with the actual values (if it is being measured). It is now possible to set an alarm signal if the SpO2 level drops too low. This can be done in two ways:

*All locations:* An administrator can set an SpO2 alarm for all locations in Mosos <CTG> Maintenance (tab 'CTG') . To do so, check the box for SpO2 in the 'Alarm' section. Then enter the desired level and time (Number of seconds) and click on [Save]. This then becomes the default setting for all locations.

*Per location:* The user can turn an SpO2 alarm on/off for each location in Mosos <CTG> Console. Click on [Alarm settings] and check/uncheck the box for 'Maternal SpO2 alarm' for the location in question. If the patient is unlinked from the location, the setting will automatically return to the default setting.

The measured SpO2 value is also displayed in the CTG notes. At most once per minute and at least once per 5 minutes (set by supplier).

Date	Time	
20-09-2019	14:05	Recording 7_3 (A), Room: 7, Length: 0h 00m
20-09-2019	14:05	SpO2: 90,5 ; MHR: 75
20-09-2019	14:06	SpO2: 91,5 ; MHR: 75

For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Maintenance, CTG](#)'.

### Mosos <CTG> Console / Alarm settings

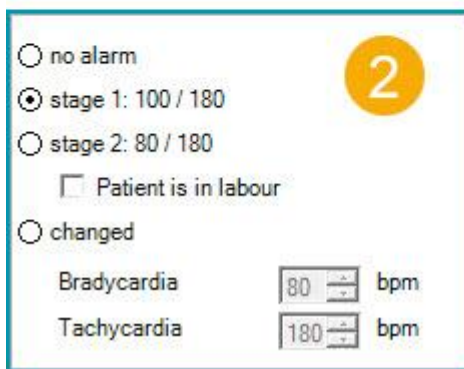
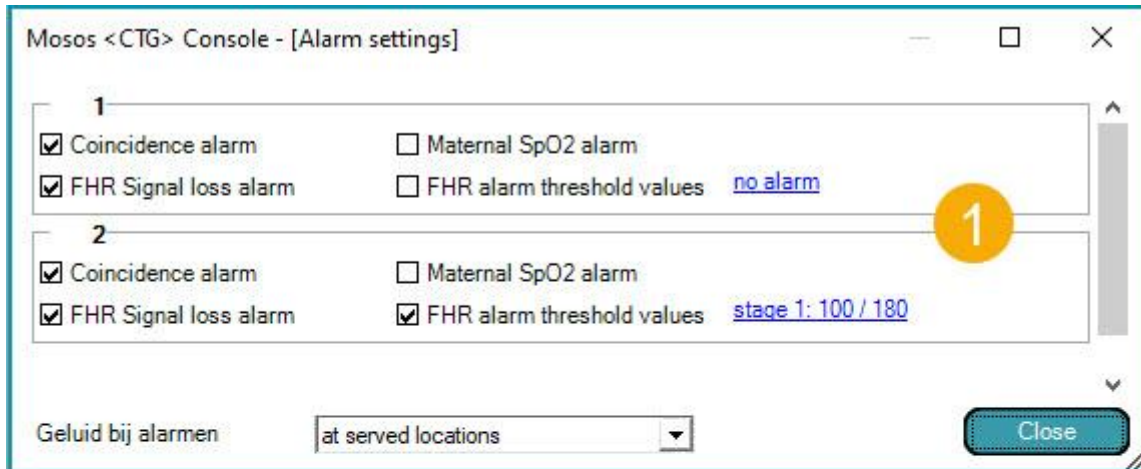
Alarm changes per location are made in the 'Alarm settings' screen.




This screen has been changed in terms of appearance and operation (1).

- By checking or unchecking a box, the alarm can be turned on/off (per type of alarm, per location).
- The maternal SpO2 alarm has been added.

The threshold values (tachycardia/bradycardia) for the FHR alarm can be changed. Click on the link (1) to open the change screen (2).



 The standard values (for all locations) are set in [Mosos <CTG> maintenance](#).

For more information, see the manual, chapter '[Mosos CTG, Console, Alarm settings](#)'.

### Mosos <CTG> Console / Logged-in user

Starting with this version, the current logged-in user is always visible in Mosos <CTG> Console. Even if the screen is blocked (by clicking on the [User login] button). The name of the logged-in user appears at the bottom left of the screen (under the Location indicators).

### Mosos <CTG> Console / Overview of unreviewed CTGs

The Unreviewed CTGs overview now contains all unreviewed CTG recordings, plus all recordings that still need to be viewed/checked by a second supervisor.

For more information, see the manual, chapter '[Mosos - CTG, Console, Overview unreviewed CTG's](#)'.

## Mosos <CTG> Console / Patient data, Parity

Customers who use Mosos <CTG> Console and do not have P tabs can change the parity using the [Patient data] button.



1. Click [Patient data].
2. Click [Modify].
3. Confirm the gravity by entering the correct number and/or removing the question mark.
4. Click on [Obstetric status]. This button is accessible when the current gravity is 2 or more.
5. Enter the number of the previous pregnancy in the 'Gravity' field, if applicable.
6. Enter the parity.
7. The sum of the parity, spontaneous abortion, selective abortion, ectopic pregnancy and molar pregnancy must be equal to the number of the gravity (because this concerns a completed gravity).
8. Enter the other information, if necessary.
9. Click on [OK] to save the data and then click on [Close] to return to the overview screen.

For more information, see the manual, chapter '[Mosos - Base, Start, Data entry and modifying data](#)'.

## Mosos <CTG> Console / Sense4Baby\*

The [Sense4Baby CTGs] button is placed in Mosos <CTG> Console. This is visible when the client has a Sense4Baby link.

If there is a red exclamation mark on the button, it is a sign that new recordings have been received that have not yet been reviewed. A green checkmark on the button confirms that all recordings have been reviewed.



By clicking on the button, an overview screen opens which lists all received CTG recordings from Sense4Baby. Select a recording and open it here to enter an review.

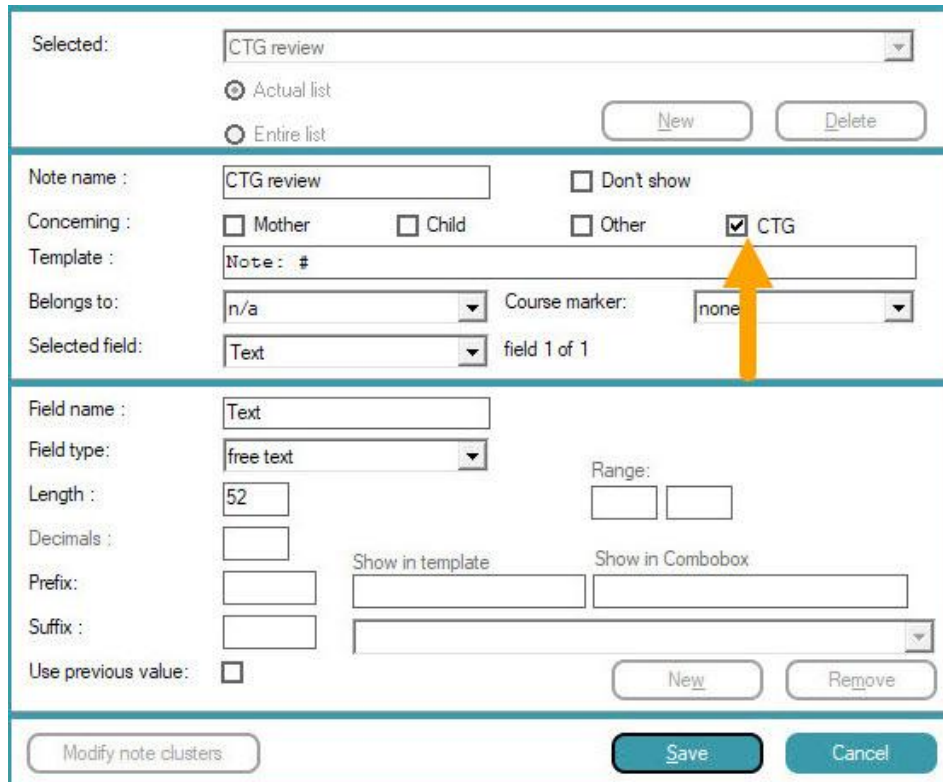
Available from software version '12.13.11' (via update). For more information, see the manual, chapter 'Mosos – CTG, Mosos <CTG> Console, Sense4Baby'.

*\*Please note; This functionality is no longer available.*

### Mosos <Notes> Templates / CTG review

In order to make it easier to review the CTG recordings, this version now makes it possible to create note templates that are specifically designed for reviewing CTG recordings.

In the template, check the box next to 'Concerning - CTG'. The review note then becomes accessible via '[Review and print CTG](#)' and '[Overview of unreviewed CTG's](#)'.



For more information, see the manual, chapter 'Mosos <Note> Templates, Maintenance Notes templates'.

### Mosos / Recommended system requirements

The recommended system requirements have been changed/supplemented.

- Client(s): Windows 10
- Server: Windows 2012 (64-bits)
- Database: SQL server 2012
- Authorisation: Access via the browser to theMososShare / Access to intranet (in connection with accessibility of manual).

For more information, see the manual, chapter '[Release notes, Introduction](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

## Release notes 12.15

- [Software version 12.15.17](#)
- [Software version 12.15.16](#)
- [Software version 12.15.15](#)
- [Software version 12.15.14](#)
- [Software version 12.15.13](#)
- [Software version 12.15.12](#)
- [Software version 12.15.11](#)
- [Software version 12.15.10](#)
- [Software version 12.15.09](#)
- [Software version 12.15.08](#)
- [Software version 12.15.07](#)
- [Software version 12.15.05 / 12.15.06](#)
- [Software version 12.15.04](#)
- [Software version 12.15.03](#)
- [Software version 12.15.02](#)
- [Software version 12.15.01](#)

### Software version 12.15.17

#### Mosos CTG / Physiological CTG interpretation

When using the optional functionality 'Physiological CTG interpretation', the vendor can set which CTG review notes are displayed or hidden. This applies to both the ante partum and/or intra partum review notes.

For more information, see the manual, chapter '[Mosos - CTG, Console, Physiological CTG interpretation](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

### Software version 12.15.16

#### Mosos <Basic > Report generator / Note report

*Authorisation level: Administrator.*

Using Mosos <Basic> Report generator, a note report can be prepared. This function can be accessed from the menu bar, under 'Report'. The report can contain both set notes and self-defined notes. The note report output is in CSV format.

For more information, see the manual, chapter '[Mosos - Basic, Report generator, Note reports](#)'. Available from software version '12.15.15'.

### **CTG maintenance / Hide unidentified signals**

*Authorisation level: Administrator.*

It is no longer possible to hide unidentified signals. This means that incoming CTG signals will always be displayed (even if no patient has been linked).

For more information, see the manual, chapter '[Mosos - CTG, Maintenance, CTG](#)'.

### **General Maintenance / Moving (patient) data**

*Authorisation level: Administrator.*

From now on, clients with access to an ADT connection can also move patient data. For more information, see the manual, chapter '[Mosos - Base, General maintenance, Delete data](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

### **Software version 12.15.15**

Various technical and functional bugs were resolved when developing this software version.

### **Software version 12.15.14**

#### **General Maintenance / Setting 'No password'**

As a result of safety requirements, it is no longer possible to select the setting 'User has no password' when creating new user accounts.

For more information, see the manual, chapter '[Mosos - Base, General Maintenance, Users](#)'.

#### **General Maintenance / Setting 'Maximum number of login attempts with incorrect password'**

*Authorisation level: Administrator.*

The maximum number of log-in attempts with an incorrect password, after which a user will be blocked, is a 'read only' setting and can only be modified by the manufacturer.

For more information, see the manual, chapter '[Mosos - Base, General Maintenance, Users](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

### **Software version 12.15.13**

Various technical and functional bugs were resolved when developing this software version.

## Software version 12.15.12

### Mosos – CTG / Remote Care locations

The management of Remote Care (e.g. PregnaOne) locations is added to Mosos <CTG> Maintenance (Location maintenance).

For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Maintenance, Maintenance locations](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

## Software version 12.15.11

### Mosos - CTG / STV

The STV functionality has undergone modifications. Some of these modifications include that the STV value will now be calculated after 20 minutes, and the STV calculation will take place over the course of a one-hour CTG recording. In addition, the calculated value over the one-hour recording will be considered definitive, after which the calculation will restart.

For more information, see the manual, chapter '[Mosos CTG, Console, CTG parameters](#)'.

### Mosos <CTG> Console and Central Monitoring / Alarm settings PregnaOne

For the CTG recordings coming in through PregnaOne, the 'FHR signal loss' and 'FHR limit values' alarm settings are now available. The alarm settings/alarm signals for 'Coincidence' and the 'Maternal SpO2' are **NOT** available. Other than this, the function is the same as for configuring/handling the standard CTG recordings.

For more information, see the manual, chapter '[Mosos CTG, Console, Alarm settings](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

Hereafter a selection of various fixed bugs

### Mosos - CTG

The last page was sometimes repeated when printing CTGs. This has been remedied.

### Mosos - CTG

The problems with exporting long-term CTG recordings (>12 hours) to CSV format have been eliminated.

### Workstations (administration/maintenance)

The BmaSso folder in the user profile now assumes the rights from the higher-level folder.

## Software version 12.15.10

### General / Product labels

A product label has been created for the Mosos software. This label is located in the software and can be accessed via the Help button. It contains information such as production date, details of the manufacturer, UDI information, etc.

### Mosos-CTG / Disabling alarm signal per workstation

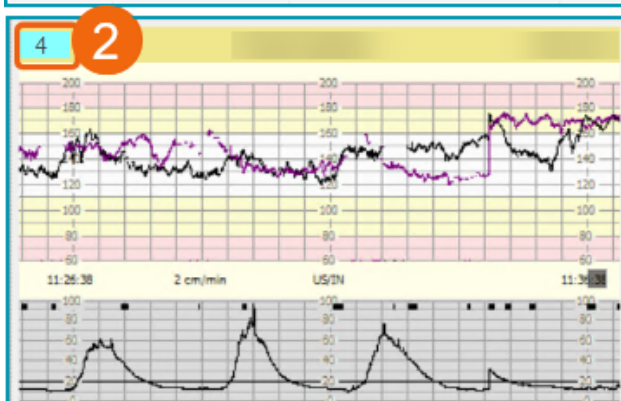
When an alarm sounds in Mosos CTG, the default setting is that users can respond to this alarm on all workstations (Console/Central Monitoring). In addition to this default setting, there is also an optional setting that the user can only respond to the alarm on the workstation in question (Console). The user must then walk to the location in question and take action there. This setting can be activated by the supplier.

For more information, see the manual, chapter '[Mosos-CTG, Console, Alarm settings](#)' or '[Mosos-CTG, Central Monitoring, Alarm](#)'.

### Mosos <CTG> Central Monitoring / Type of CTG, marking

If the 'Type of CTG' is 'high risk', then this is visible in the location overview in Mosos <CTG> Console based on the blue marking in the column 'Location'(1). From now on, this blue marking will also be displayed in Central Monitoring (2).

Room	Patient number	Patient name	G P	Gestational age	S	Mode
1	1215002		G2?		AT	—/—
2						—/—
3						—/—
4	306130		G1 P0		AT	—/—
5						—/—
6	1215001		G1		AT	—/—
7						—/—

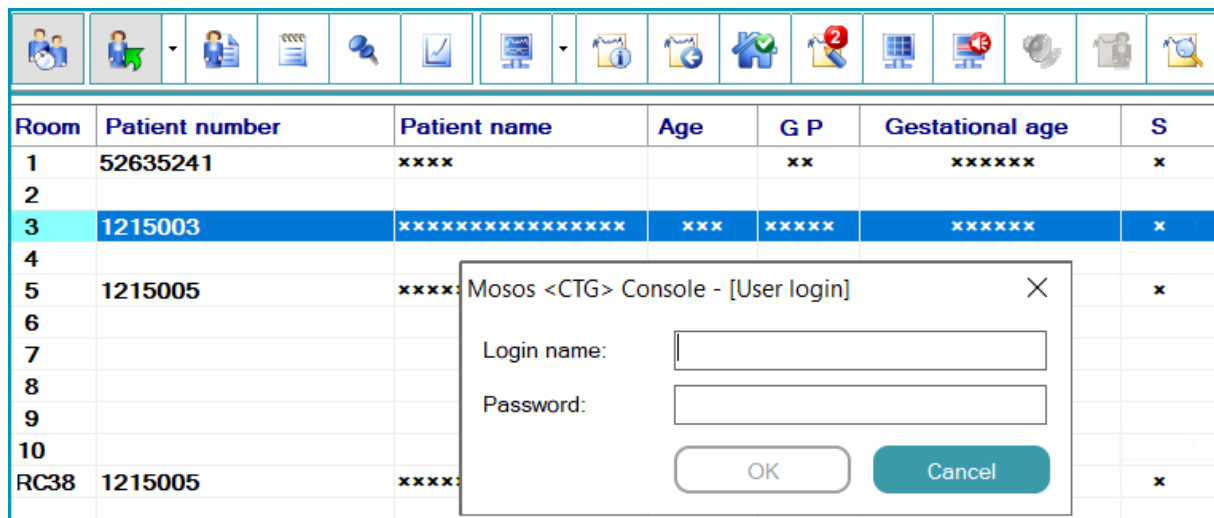


For more information, see the manual, chapter '[Mosos-CTG, Central Monitoring, CTG and location content](#)' or '[Mosos-CTG, Console, Screen overview](#)'.

## Mosos <CTG> Console / Anonymisation of Location Overview

Authorisation level: Administrator.

It is now possible to display all identifying patient data in anonymised fashion in the location overview of Mosos <CTG> Console if no user is logged in. The administrator can implement this setting in Mosos <CTG> Admin ('Console' tab).



Room	Patient number	Patient name	Age	G P	Gestational age	S
1	52635241	xxxx		xx	xxxxxx	x
2						
3	1215003	xxxxxxxxxxxxxxxx	xxx	xxxxx	xxxxxx	x
4						
5	1215005	xxxx				x
6						
7						
8						
9						
10						
RC38	1215005	xxxx				x

Mosos <CTG> Console - [User login] ✕

Login name:

Password:

For more information, see the manual, chapter '[Mosos-CTG, Maintenance, Console](#)' or '[Mosos-CTG, Console, Screen overview](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

### Software version 12.15.09

#### Mosos Remote Care / PregnaOne integration

In addition to Sense4Baby\*, PregnaOne is now also integrated into Mosos. With both devices (mobile), women (or caregivers) can make a CTG recording on location themselves. The recordings can be read out and reviewed using a connection in the Mosos <CTG> Console. This service is called Mosos Remote Care (Mosos RC). The PregnaOne system is MDR-certified, it has the option to send messages/notifications, can be integrated with the EPR and works very intuitively.

For more information, see the manual, chapter '[Mosos - CTG, Remote Care, PregnaOne](#)'. There is also a caregivers' handbook for PregnaOne and an instruction card for the patient. They are supplied with the device.

*\*Please note; Sense4Baby is no longer available.*

### Server process for exporting CTG recordings

It is now possible to export CTG recordings automatically to the Mosos.Com directory through a server process. Please [contact](#) ICT HCTS to implement this.

In addition, various technical and functional bugs were resolved when developing this software version.

### Software version 12.15.08

#### Mosos <O> / Add PDF file

The button [PDF document] has been added to the tool bar under 'Letters and documents' in Mosos <O>. By clicking on this button, a PDF file can be selected and then added to the summary.



For more information, see the manual, chapter 'General, Correspondence, Start'.

In addition, various technical and functional bugs were resolved when developing this software version.

### Software version 12.15.07

#### Mosos <CTG> Console / Physiological CTG interpretation

The "Individualised decision support" functionality in Mosos <CTG> Console can be used during the physiological interpretation of a CTG recording. This is an optional functionality. It is a tool to assist in deciding whether the baby is fit enough to withstand the delivery. Two checklists have been created for this purpose: The list "CTG review ante partum" and the list "CTG review intra partum".

For more information, see the manual, chapter '[Mosos - CTG, Console, Physiological CTG interpretation](#)'.

Upon delivery of version 12.15.07, also read the release notes for Mosos Comfort [12.14.16](#). This version includes various innovations that also apply for the update to version 12.15.07.

In addition, various technical and functional bugs were resolved when developing this software version.

### Software version 12.15.05 / 12.15.06

Various technical and functional bugs were resolved when developing these software versions.

## Software version 12.15.04

A number of new features have been added to Mosos Comfort 12.14.13, which were not previously described in the manual for 12.15. Please refer to release note 12.14 for more information about these features.

In addition, various technical and functional bugs were resolved when developing this software version.

## Software version 12.15.03

Various technical and functional bugs were resolved when developing this software version.

## Software version 12.15.02

### General / Disclaimer STV

A disclaimer regarding STV has been added to the manual.

For more information, see the manual, chapter '[Mosos <CTG> Console; CTG parameters](#)'.

### General / Print manual

From this (12.15) version onwards, the Mosos user can print a complete user manual and no longer needs to request a copy from the supplier.

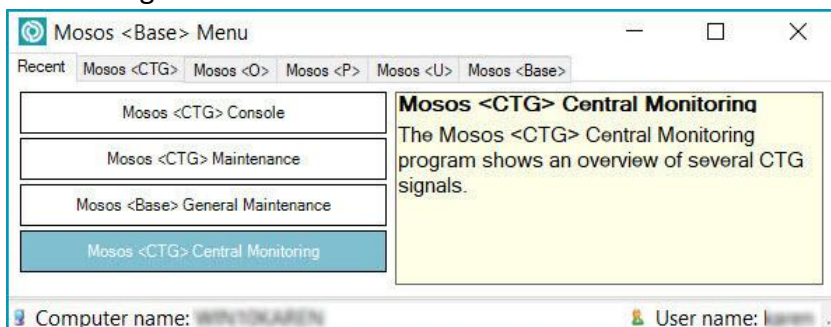
For more information, see the manual, chapter '[Introduction](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

## Software version 12.15.01

### Mosos <Base> Menu

Mosos <Base> Menu has undergone an update. The appearance has been changed and the functioning is now more intuitive.



For more information, see the manual, chapter '[Mosos - Base, Start, Mosos <Base> Menu](#)'.

### Mosos <Base> Menu management

Mosos <Base> Menu Management has undergone an update. The appearance and the functioning have been simplified.

For more information, see the manual, chapter '[Support, Mosos <Base> Menu](#)' and '[Support, Mosos <Base> Menu Management](#)'.

### Mosos - CTG / AFL integration\*

If an AFL monitor is present and the customer has a MososNXT Connect connection, then it is possible to display the AFL values in the partogram of the Mosos <CTG> Console.

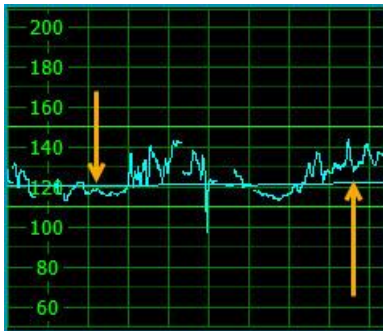


For more information, see the manual, chapter '[Mosos - CTG, Partogram](#)'.

*\*Please note; This functionality is no longer available from version 12.15.08.*

### Mosos <CTG> Console / Baseline

The “Review CTG” function allows you to display the baseline in the CTG strip.



For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Console, CTG parameters](#)'.

### Mosos - CTG / Console / Summary of analysis CTG parameters

A new button [OK + Summary] in the “parameters” screen provides access to the summary of analysis parameters. The following values are displayed here: Accelerations, Decelerations, Baseline, STV and LTV.

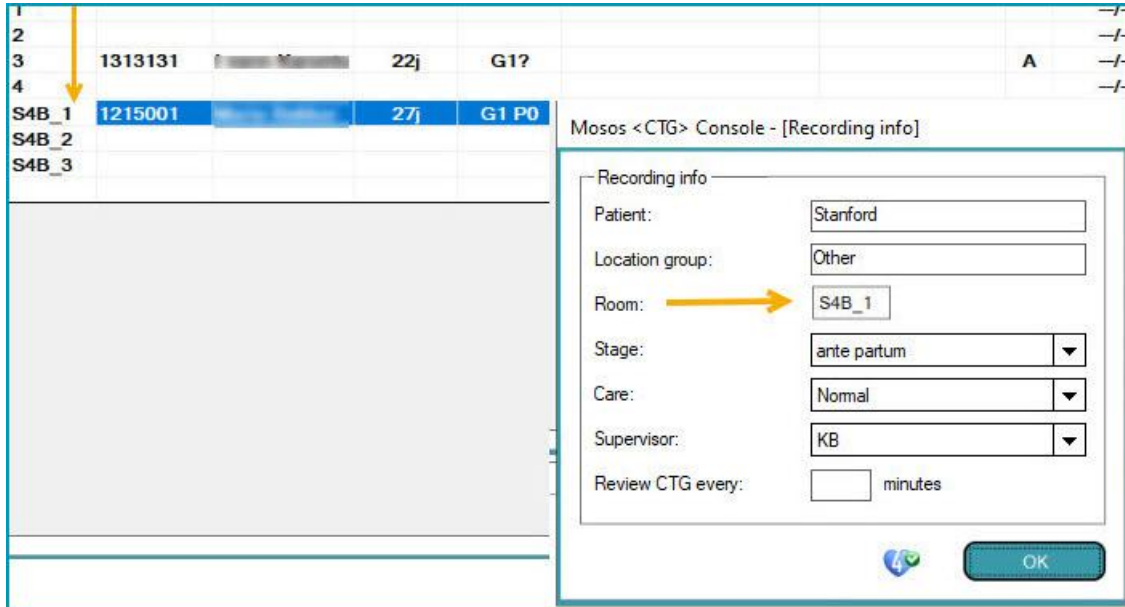


Do you want to open the screen? Click on:  > Button [Parameters] > Button [OK + Summary].

For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Console, CTG parameters](#)'.

### Mosos <CTG> Console / Sense4Baby\*

In addition to the existing solution for retrieving Sense4Baby CTG recordings after they have been recorded (or viewing them live in the Telenatal® portal), it is now also possible to stream CTG recordings to Mosos <CTG> Console and Mosos <CTG> Central Monitoring.



For more information, see the manual, chapter 'Mosos - CTG, Sense4Baby, Streaming'.

*\*Please note; This functionality is no longer available.*

### Mosos - CTG / Console and Central Monitoring / CTG strip

The grid for the CTG strip has been refined. Depending on the zoom factor, a line will be visible every 5, 10 or 20 bpm. The greater the zoom, the smaller the distribution.



### Mosos - CTG / Console and Central Monitoring / Alarm

If an alarm sounds in the Mosos <CTG> Central Monitoring, then the frame around the location in question will turn red. The user can then click on the icon with the alarm bell to switch off the alarm signal (red frame + sound). However, if the situation continues as is (no

improvement), then the frame (1) will turn orange. The location indicator in the Mosos <CTG> Console will remain orange (2). In other words, there is an additional (visual) warning.

For more information, see the manual, chapter '[Mosos - CTG, Mosos <CTG> Console, Alarm settings](#)' and '[Mosos - CTG, Mosos <CTG> Central Monitoring, Alarm](#)'.

In addition, various technical and functional bugs were resolved when developing this software version.

# Index

## A

Abbreviated name 13  
 Acceleration factor (CTG) 169  
 Active Directory 301  
 Actual values 198, 267  
     Show actual values 255  
 Alarm (Central Monitoring) 272  
     Alarm parameters 260  
     Alarm setting 260, 263  
     Alarm sound 260  
     Handling alarm 272  
     Mute alarm 255, 272  
 Alarm (CTG) 244  
     Alarm notes 244  
     Alarm parameters 244  
     Audible alarm 244  
     Maintenance 172  
     Message to mobile device 244  
     Setting an alarm 244  
     Sound display (Alarm) 244  
     Visual display (Alarm) 244  
 Alarm notes 244  
 Algorithm patient number 170  
 Analysis parameters 230  
 Anonymisation of patient data during login 170, 198  
 Anonymise names (Central Monitoring) 255  
 Anonymous CTG 213  
     Notes in anonymous CTG 83  
     Search 213  
     Transfer 213  
 ATNA logging 35  
 Audible alarm 244  
 Authorisations 13, 42  
 Automatic disconnection (CTG) 176, 216, 238  
 Automatic review screen (CTG) 216, 238  
 Automatically expand (Central Monitoring) / 255  
 Automatically starting STV 176, 230

## B

Baby in the room, yes or no 116  
 Background colour (CTG strip) 172, 198, 250, 267  
 Baseline (CTG) 230  
 Bed overview 121  
     Maintenance 112  
 Bed properties 112  
 Block / Unblock a bed 112  
 Button summary Admission and delivery overview 106  
 Button summary Graphs 133  
 Button summary Mosos <CTG> Console 195  
 Button summary Mosos <PatientView> 106  
 Button summary Partogram 275  
 Button summary Pregnancy report notes 94  
 Button summary Report generator 147

## C

Change history (Drop-down list) 25  
 Change history (Notes) 83  
 Characteristics of patient 116  
 Child selection  
     Select child button 54  
 Close 42  
 Close a record 52  
 Close Mosos <PatientView> 121  
 Coincidence 244, 267  
 Colour CTG and parto 250  
 Colour scheme (CTG) 172  
 Connect (Patient)  
     Incorrect link (Mosos CTG) 189  
     Mosos <PatientView> 116  
     Mosos CTG 180, 184  
     Quick Registration 180, 184, 191  
 Contact 7  
 Contents of CTG strip 198  
 Contraindications CTG 162  
 Copy patient number to clipboard 116

- Copyright 7
- Correspondence
  - Print 277
- Course (Bed overview) 121
- Create a ward / room / bed 112
- Creating a TEMP number 61
- CSV file 198
- CTG
  - Anonymous CTG 213
    - Notes in anonymous CTG 83
    - Search 213
    - Transfer 213
  - Automatic disconnection (CTG) 176, 216, 238
  - Automatic review screen (CTG) 216, 238
  - Contraindications 162
  - Cropping the CTG at the frame edges 172
  - CTG and location content 267
  - CTG archive 208
  - CTG parameters 230
  - CTG recording line 213
  - CTG review (Console) 216, 223
    - Display reviews (CTG) 216
    - Register reviewer 216
    - Show review 216
  - CTG scale 267
  - CTG strip 267
    - Contents of CTG strip 198
    - Show CTG 263, 267
    - Toco- / STAN © strip 267
- FMP 96
- Indications 162
- Individualized decision support 223
- Intended Population 162
- Intended Purpose 162
- Intended Users 162
- Interim summary 209
- Not assigned (CTG) 216
- Physiological CTG interpretation 223
- Printing CTG recordings 209
- Product Claims 162
- Searching CTGs previous pregnancies 242
- Transfer (Anonymous CTG) 213
- Unreviewed CTG's (CTG) 238
  - Search 238
  - View preceding part current CTG 263, 267
- CTG Acquisition points 176
- D**
  - Data entry and modifying data 54
  - Data protection GDPR 292
  - Default stage 170
  - Delete data 13, 30
  - Delivery rooms 123
  - Discharge 127
  - Disconnect (Patient)
    - Mosos <PatientView> 116
    - Mosos CTG 191
    - Quick Registration 180, 184, 191
  - Display as note in graph 83
  - Display reviews (CTG) 216
  - Doctor's and midwifery notes 83
  - Domain membership 301
  - Dual screen 198
- E**
  - EDD history 64
  - Editing names (Locations) 176
  - Enlarge (Central Monitoring) 250, 263
  - Enlarge (Partogram) 277
  - Event notes and markers 198
  - Export CTG data 198
  - Extra fields 54
- F**
  - Failed login attempts 13
  - Feeding policy 136
  - Fetal movement pattern 227
  - FHR signal loss 172, 244
  - FHR strip 267
  - Filter notes 96
  - Filter per department 121
  - Fluid balance 144
  - FMP 96
  - Free text 54
- G**
  - General Maintenance 9
  - Gestational age 198
  - Graph child 136
  - Graph mother 140
  - Graphics 298
  - Graphs (General information) 134
    - Print from Mosos <O> 134

## H

Handling alarm 272  
 Hardware and software requirements 294  
     Client hardware requirements 298  
     Client requirements 298  
     Hardware requirements (server and client) 295  
     Hardware requirements for physical servers 296  
     Hardware requirements for virtual servers 296  
     Microsoft SQL Server 299  
     Microsoft SQL Server-licences 299  
     Minimum client software requirements 298  
     Network infrastructure 301  
     Operating system licences 299  
     Ports 301  
     Requirements for servers and third parties 296  
     Security recommendation 296  
     Server requirements 296  
     Software requirements 299  
     Virtual server 296  
 Hide form (screen) during login 170  
 Hide unidentified signals 172  
 HIS connection 180

## I

Incorrect link (Mosos CTG) 189  
 Indications CTG 162  
 Individualized decision support 223  
 Insurance 49  
 Intended Population CTG 162  
 Intended purpose hardware and software requirements 294  
 Intended Purpose Mosos CTG 162  
 Intended Users CTG 162  
 Interim summary 209

## L

Lay-out (Central Monitoring) 255  
 Licences (Mosos CTG) 180, 184  
 Location data 267  
 Location groups 265  
 Location indicators 226  
 Location overview 198  
 Locations (Central Monitoring) 265  
     Pinned location 265

Lock/unlock input 42  
 Locking operation 198  
 Login 42  
     Login for the first time 42  
 Login for the first time 42  
 Login name 13  
 Login notes 83  
 LTV 230

## M

Maintenance (Locations) 176  
     Automatic disconnection (CTG) 176, 216, 238  
     Automatically starting STV 176, 230  
     Creating a group 176  
     CTG Acquisition points 176  
     Deleting a group 176  
     Editing names (Locations) 176  
     Mobile station location 176  
 Maintenance (Mosos <CTG> Acquisition) 169  
     Acceleration factor (CTG) 169  
     Simulation CTG 169  
 Maintenance (Mosos <CTG> Console) 170  
     Algorithm patient number 170  
     Default stage 170  
     Recording lines in summary 170  
     Register patient 170  
     Settings for each Console application 170  
 Maintenance (Mosos CTG) 172  
     Alarm 172  
     Colour scheme (CTG) 172  
     Cropping the CTG at the frame edges 172  
     CTG review 172  
     FHR signal loss 172  
     Hide unidentified signals 172  
     Print text lines underneath CTG trace 172  
     View CTG aspect 172  
 Maintenance (Notes)  
     Note cluster 80  
 Mandatory fields 54  
 Manual (online and print version) 1  
 Maternal heart activity 228  
 Maternal parameters 229  
 Maternal SpO2 alarm 244

- Memorandum 60
- Menu bar 54
- Message to mobile device 244
- Minimum client software requirements 298
- Minimum system requirements 312
- Mobile station location 176
- Mobile stations (Central Monitoring) 255
- Modification button 54
- Mosos - Base – WebDoc 158
  - Procedure 160
  - Screen content 160
- Mosos - CTG - Emergency procedure 289
  - Network failure 289
- Mosos <Base> General Maintenance 9
  - Open 9
- Mosos <Base> Menu 40, 303
  - Functioning 40
  - Mosos Setup 305
  - Rights 40, 304
  - Screen content 304
- Mosos <Base> Menu management 306
  - Adding computer names 308
  - Autostart 308
  - Deleting a Computer name 308
  - Entering Concurrent License Parameters 308
  - Start 307
  - Tab Computer settings 308
- Mosos <CTG> Central Monitoring 249
  - Screen content 250
  - Select and deselect 250
  - Start 250
- Mosos <CTG> Console 198
- Mosos <CTG> Maintenance 167
- Mosos <P> not installed? 64
- Mosos <PatientView> 109
  - Bed overview 121
    - Maintenance 112
  - Delivery rooms 123
  - Overview screen 109
  - Print 109
- Mosos Comfort network specifications 301
- Mosos Menu 40
- Mosos Remote Care 282
  - Button flashing 283
- CTG review 285, 287
- Overview screen 284
- Pregnabit Pro 282
  - identification number 282
  - Location 282
  - PIN code 282
- PregnaOne 282
  - Blood pressure 282
  - Location 282, 287
  - Overview screen 284
  - PIN code 282
- Seen 284
- Status 285
- Streaming 287
- MososWeb pages 13
- Most recent notes of the selected location 198
- Multiple birth connection 54
- Mute alarm 272
- N**
- Network failure 289
- New note/order 83
- Not assigned (CTG) 216
- Notes 83
  - Alarm notes 244
  - Change history (Notes) 83
  - Display as note in graph 83
  - Doctor’s and midwifery notes 83
  - Event notes and markers 198
  - Login notes 83
  - Most recent notes of the selected location 198
  - New note/order 83
  - Note cluster 80, 92
  - Notes in anonymous CTG 83
  - Pregnancy report notes 96
    - Filter notes 96
  - Remove note 83
- Notitierapporten 155
- Number (Central Monitoring) 255
- Numerical data fields 54
- Nursing assessment 129
  - Components 131
- Nutrition table 136
- O**
- Offline location 198, 242
- Online location 198, 242

- Only CTG 198
- Operating system licences 299
- Orders 99
  - Delete 105
  - Execute order 103
  - Modify order 104
  - New note/order 83
  - No execution 105
  - Printing an overview of open orders 209
  - Repeating order 101
  - Single order 99
- P**
- Parity 54
- Partogram 277
  - AFL integration 277
  - Close 277
  - Enlarge partogram 277
  - Entering data 277
  - Filtering 277
  - Print 277
  - Screen content 277
- Password 42
  - Change password 42
  - Complex passwords 42
  - One-off password 42
  - Password policy 16
  - Settings 13
- Patient
  - Disconnect patient (Mosos <PatientView>) 116
  - Disconnect patient (Mosos CTG) 191
  - Incorrect link (Mosos CTG) 189
  - Move a patient (Mosos <PatientView>) 116
  - Move a patient (Mosos CTG) 193
  - Patient data 54, 116
  - Patient without official identification 49
  - Quick Registration 180, 184, 191
  - Register patient (Mosos <PatientView>) 116
  - Searching for a patient 48
    - Quick search 48
  - Transfer patient data 33
- Physiological CTG interpretation 223
- Ports 298
- Pregnancy info data 54
- Print text lines underneath CTG trace 172
- Printer selection 209
- Product Claims CTG 162
- Product classification in the manual 1
- Q**
- Quick Registration 191
- Quick search 48
- R**
- Radio button 223
- Ranking / Sorting locations displayed 250
- Recently used 48
- Record
  - Close a record 52
  - Create a record 49
  - Open a record 52
  - Patient without official identification 49
  - Record check 54
  - Summary 52
- Record check 54
- Recording information 180, 184, 193
- Recording lines in summary 170
- Register reviewer 216
- Relations
  - Maintenance 13, 21
    - Add new relation 21
    - Modify relation data 21
    - Remove / Reinstall relation data 21
- Release notes 312
- Release notes 12.14 312
- Release notes 12.15 325
- Remove note 83
- Replace a TEMP number 61
- Report 153
  - Edit report 153
  - Output 153
  - Save report 153
- Report generator 148
  - Creating columns 148
  - Filter 148
  - Login 148
  - Main conditions 148
  - New report definition 148
  - Note reports 155
  - Sub conditions 148
- Report generator, Maintenance 13
- Responsible caregiver 116
- Review (Mosos CTG) 216, 238
  - Show review 216

- Review CTG 208
- Room properties 112
- S**
- Saving files 9
- Screen size ('Splitter') 250, 263
- Searching CTGs previous pregnancies 242
- Selected CTG (Central Monitoring) 260
- Selection lists 54
  - Maintenance 25
    - Add new description 25
    - Change history 25
    - Content 25
    - Modify description 25
    - Mutate 25
    - Reinstall description 25
    - Remove description 25
    - Select 25
    - Sorting content selection list 25
- Send documents 13
- Settings
  - Maintenance 13, 23
    - Add new institute 23
    - Modify institute data 23
    - Remove/Reinstall institute data 23
  - Settings (Central Monitoring) 263
  - Settings (STV) 230
- Show actual values 255
- Show empty rooms / beds 112
- Sidebar (Bed overview) 116, 121
- Sidebar (Central Monitoring) 250
- Signal derivation 198
- Simulation CTG 169
- Single Sign On 42
- Sizing screens 198
- Sound display (Alarm) 244
- Split FHR 198, 260
- SpO2 172, 244
- Stage 198
- STAN integrati3n
  - STAN notes 267
  - Toco- / STAN 3 strip 267
- Storage 298
- STV 230
  - Automatically starting STV 176, 230
  - Print STV 230
- Settings (STV) 230
  - Show STV (Central Monitoring) 260
- Summary (Record) 52
- Symbols/Icons 5
- System functions 298
- T**
- TEMP numbers 61
  - Creating a TEMP number 61
  - Replace a TEMP number 61
  - When replacing doesn't work 61
- Term 64
  - EDD history 64
  - First determination (Mosos <P> installed) 64
  - Modify EDD (Mosos <P> installed) 64
- Things to be considered while using Mosos 3
- Timeline 146
- Toco- / STAN 3 strip 267
- Tooltip (Bed overview) 116, 121
- Transfer data 33
- U**
- Unreviewed CTG's (CTG) 238
  - Search 238
- Unused location 198
- Used location 198
- Users
  - Abbreviated name 13
  - Add new user data 13
  - Block user 13
  - Deblock user 13
  - Login name 13
  - Maintenance 13
  - Reinstate user 13
  - Remove user 13
  - Setting up a password 13
  - Setting up authorisations 13
  - Specified rights 13
  - View and change user data 13
- V**
- View (Central Monitoring) 255
- View CTG aspect 172
- Virtual server 296
- Virusscanner uitzonderingen 300
- Visual display (Alarm) 244