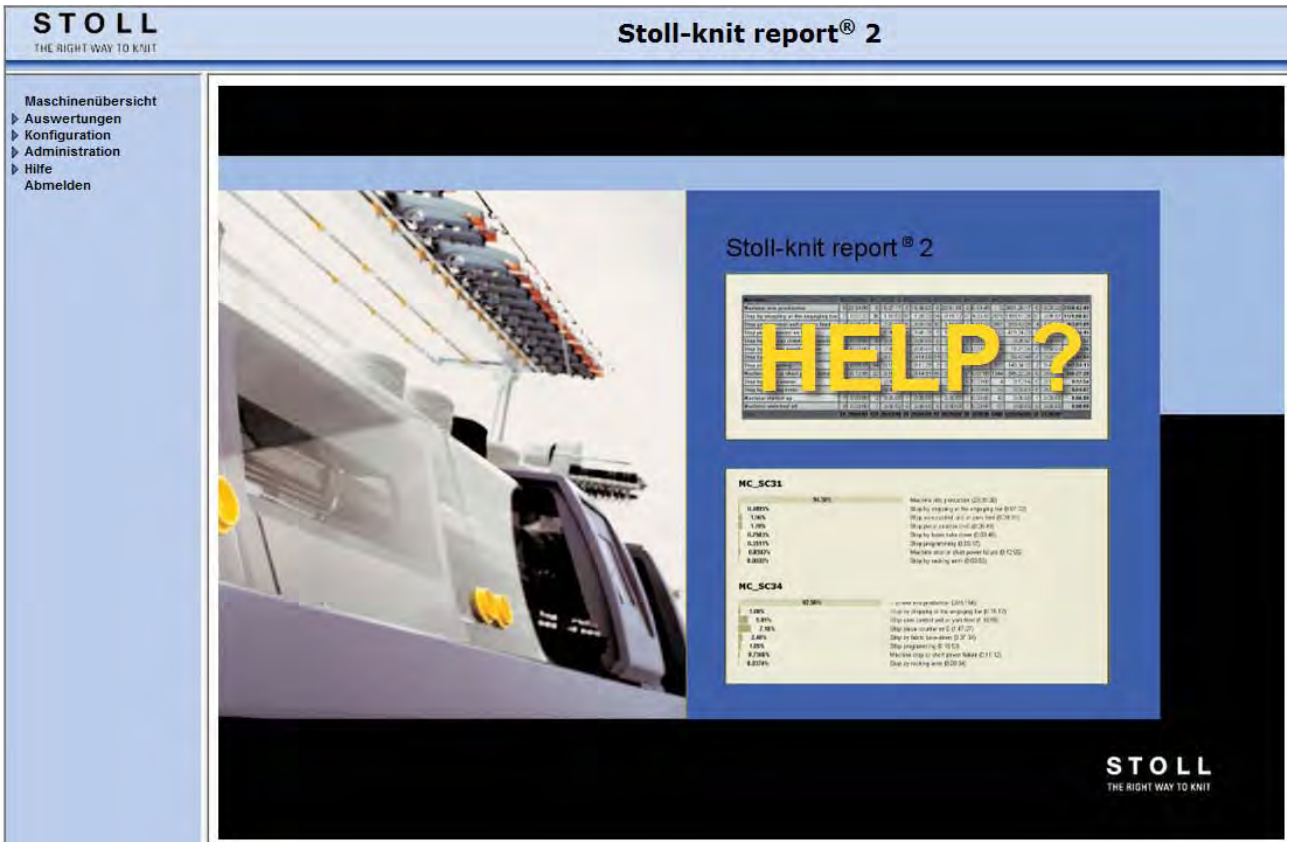
STOLL

Installation and Operation

Stoll-knit report® 2



242466_01 GB
Issue 07/2011
H.Stoll GmbH&Co. KG, Reutlingen

Table of contents

1 About this document

1.1 Function of this document

This document explains how to install and operate the Stoll-knit report® 2 software.
It contains the following information:

For this, see also...

- Description of the Stoll-knit report® 2 software [▶ 13]
- Installing the Stoll-knit report® 2 [▶ 29]
- Stoll-knit report® 2 software on the knitting machine [▶ 43]
- Evaluating the Stoll-knit report® 2 [▶ 53]
- Administrator tasks [▶ 123]
- Event definitions [▶ 153]

1.2 Target groups of this document

Target groups	Chapter
User of Stoll-knit report® 2 software	1. About this document 2. Description of the Stoll-knit report® 2 software 4. Stoll-knit report® 2 software on the knitting machine 5. Evaluating the Stoll-knit report® 2 software.
User of the knitting machine	1. About this document 2. Description of the Stoll-knit report® 2 software 4. Stoll-knit report® 2 software on the knitting machine
Network administrators	All chapters

Allocation of target groups and chapters

1.3 Information in this document

This document contains all the information on the design, function, interfaces, installation, operation and error remedy of the Stoll-knit report® 2 software.

Additional information is provided by the following documents:

Document	Information
Operating instructions for the knitting machine	Mounting, operation, maintenance and servicing of the knitting machines
Networking, Ethernet and Selan, McNet2/XP instructions	Networking of Stoll knitting machines, Stoll pattern workstations and the Stoll-knit report software.

Documents about knitting machine and software

Additional information is available via:

- the Stoll branch office or Stoll dealer in your country
- as the Stoll-Helpline
  - Tel: +49-(0)7121-313-450
  - Fax: +49-(0)7121-313-455
- E-Mail: helpline@stoll.com
- Internet: http://www.stoll.com
- Training courses at the Stoll training centers

1.4 Symbols in this document

Some information in this document are marked with special symbols to make it easier to access this information quickly.

i	Background information is provided here.
	Tips for optimal procedure are provided here.

	**CAUTION**
	A warning is given here! A warning sign protects you e. g. against data loss. ➜ Always read warnings carefully and observe them exactly.

1. Carry out first action.
2. Carry out second action.
3. Carry out third action.

- or -

➜ Carry out one-step action.

	NOTICE
	If something fails to function properly: Information on the possible causes is provided here. ➜ To solve the problem, carry out the action described here.

1.5 Data protection

When the Stoll-knit report® 2 software is used, personal data that are subject to data protection are collected, stored and evaluated.

1. Observe the laws and regulation applicable in the country of use.
2. Use the Stoll-knit report® 2 software only under observance of the statutory regulations.

2 Description of the Stoll-knit report® 2 software

The Stoll-knit report® 2 software automatically detects machine data and operating data.

Recorded data can be viewed and evaluated according to different criteria.

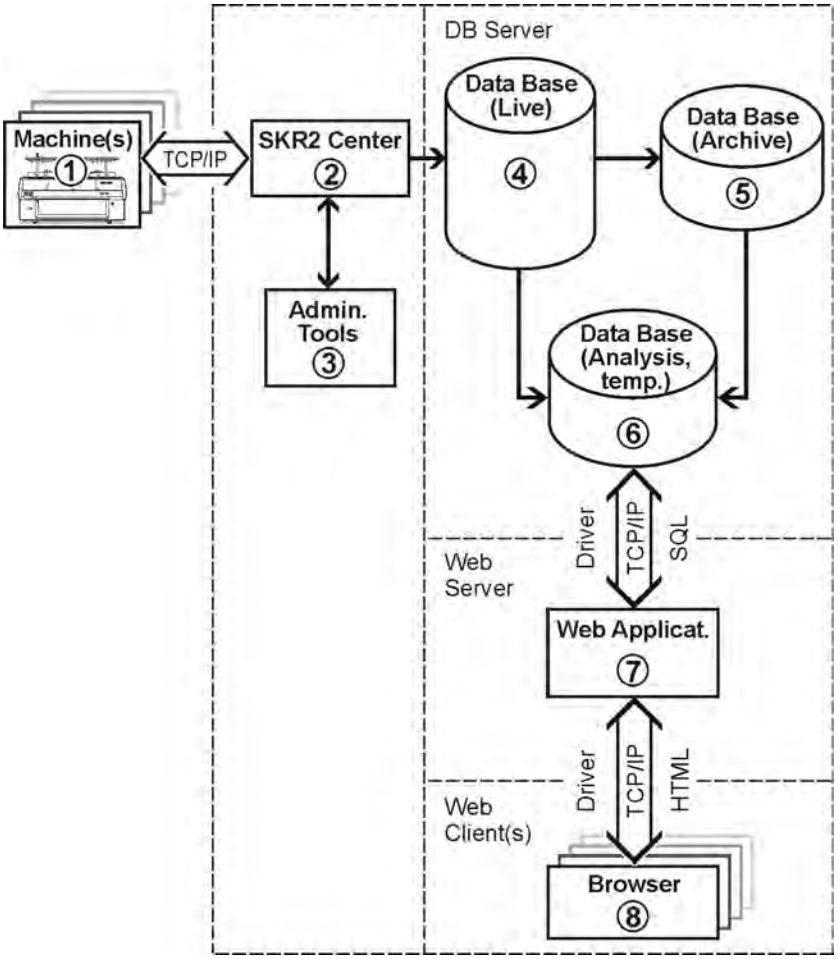
This section contains the information about:

For this, see also...

- Architecture of the Stoll-knit report® 2 software [▶ 14]
- Functionality of the components [▶ 20]
- Events [▶ 15]

2.1 Architecture of the Stoll-knit report® 2 software

This section contains information about how the components of the Stoll-knit report® 2 software communicate with each other.



Stoll-knit report® 2 and its interfaces

- All the components are networked at the Stoll-knit report® 2 software.
  One or more knitting machines (1) are connected to the central administration (SKR2 central unit) (2) of the Stoll-knit report® 2 software.
- When you have activated the Stoll-knit report® 2 software, the data of th connected knitting machines are detected and saved in the live database (4).
- With administrator programmes (3) you can administer the machine lists, define user-defined events, display log messages and archive the live database and read into the archive database as well as save the archive database (5) and carry out a backup of the live database.
- Using various web applications that are installed on a web server (7), you can store the data temporarily in a temporary analysis database (6) and call up and display them with a javascript-compatible browser (8).

2.2 Events

Event types that are generated on the knitting machine and that the Stoll-knit report® 2 software detects:

ID	Type	Name
0	SKR2_TYPE_TEMP	Pseudo events for secondary database
1	SKR2_TYPE_META_DATA	Meta data events
2	SKR2_TYPE_MC_STATE	MC status events
3	SKR2_TYPE_USER_INFO	User-definable events without status (info events)
4	SSKR2_TYPE_USER_MODE	User-definable events with status (status events)
5	SKR2_TYPE_SINTRAL_INFO	Sintral-generated events without status (info events)
6	SKR2_TYPE_SINTRAL_MODE	Sintral generated events with status (status events)
101	SKR2_TYPE_BOSRV	BO server events
121	SKR2_TYPE_POLLCLIENT	Pseudo events for primary database

Event types for the Stoll-knit report® 2 software

For this, see also...

Event definitions [▶ 153]

2.2.1 Operating data

The following operating data arise during the operation of knitting machines:

- Shift changes
- Pattern change/Sequence change/Order change
- Productivity change
- User-defined state changes

2.2.2 Machine data

The knitting machine generates machine data. These data are generated by events.

The following events are logged:

- Machine startup/shutdown
- Stop motions at the machine
  - Stop by operator (engaging rod)
  - Stop by yarn control device or yarn feed
  - Stop by stop resistance
  - Stop by position needle sensor
  - Stop by fabric take-down
  - Stop by shock stop
  - Stop by racking error
  - Programmed stop
  - Machine stop or brief power failure
- Status of connection with the SKR2 central unit
  - online
  - offline
- Change in date/time
  - Changing of the PC system time by other applications (e.g. Setting of the time in the Control Panel - Date/Time)

2.2.3 User-defined events

You can define and administer up to 32 767 user-defined events. Of these event definitions a maximum of 100 of them may be active. Only active event definitions are transferred to the machines. The machine operator can then trigger this user-defined event at any time. A free text and a symbol can be entered for each user-defined event. The text and symbol are displayed on the user interface of the machine and during the evaluation in the Stoll-knit report® 2.

i	User-defined events may only be defined or modified by the administrator.

For this, see also...

- Defining and administering user-defined events [▶ 144]
- Triggering a user-defined event [▶ 48]

2.2.4 Sintral-generated events

Sintral-generated events function similarly to the user-defined events. However, these events are triggered by a Sintral program. A corresponding command has to be included in the Sintral program.

To this purpose the PRINT command is used with a specific syntax.

For this, see also...

- Triggering a Sintral generated event [▶ 52]
- Triggering a user-defined event [▶ 48]

2.2.5 Functionality of the components

This section contains the information about:

For this, see also...

- Stoll-knit report® 2 on the knitting machine [▶ 21]
- SKR2 central unit [▶ 22]
- Database server [▶ 23]
- Web application [▶ 24]
- Web client [▶ 25]
- Administrator programs [▶ 27]

2.2.5.1 Stoll-knit report® 2 on the knitting machine

The Stoll operating systems of version CMS-TC >/= 3.6 and OKC contain the machine-specific functions for the Stoll-knit report® 2 software.

- Event generation

  Automatic events or events defined by the user are generated on the knitting machine and are provided for sampling by the SKR2 central unit (Event-Server)

- Event administration

  The events can be stored temporarily on the knitting machine for approx. four operating days (approx. 100 operating hours). During this period no events are lost if they cannot be fetched in time.

  After approx. four days the event generation is switched off automatically and the used memory is released again. The data are deleted.

i	The Stoll-knit report® 2 software has to be activated on the knitting machine in order for this function to be used.

2.2.5.2 SKR2 central unit

The Stoll-knit report® 2 software includes a Polling-Client, called the SKR2 central unit.

The SKR2 central unit has the following tasks:

- Event collection
  - The SKR2 central unit cyclically fetches events from the machine or from the event management of the machine.
- Event storage
  - The SKR2 central unit enters the events in the corresponding table of the live database (MySQL). Each machine has separate tables for event records in order to ensure selection.
  - The SKR2 central unit reports the successful entry of an event in the live database to the machine.
  - The SKR2 central unit sends time synchronization commands to the machine.
  - The SKR2 central unit administers the list of machines to be queried.
  - The SKR2 central unit writes log messages into a log file.
- Administration with administrator programmes
  - Administering the list of machines to be queried (IP address)
  - Defining and administering user-defined events
  - Archiving the data in archive files and reading the data into the archive database
  - Backing up of the live database (Backup)
  - Displaying the log file

2.2.5.3 Database server

For data processing a cursor that is started by the web application copies the records of the live database or of the archive database into one or more temporary evaluation databases for evaluation per SQL.

The database server has the following tasks:

- The live database collects the data constantly arising of the connected machines (including the current status).
- The archive database records the historical data from the archive files (without the current status).
- One or more temporary evaluation databases receive the data by means of the cursor from the live database or from the archive database. A separate evaluation database is created for each logged-on user.

The Stoll-knit report® 2 software uses MySQL as the database server.

i	Up-to-date information can be found in the MySQL Reference Manual for Version 4.1.x or under www.mysql.com.

Important features of MySQL:

- Multiuser capability
- Source code available (C/C++)
- Utilization of several CPUs, if existing (multithreaded)
- APIs for C, C++, Java, Perl etc.
- Available on many different platforms
- Flexible and secure access system to databases
- Fixed and variable records
- Databases with a great number of entries possible
- Support of ISO-8859-1 Latin 1 character set (other character sets possible. However, these have to be included individually in the source code).
- Inclusion of the clients for the MySQL-Server via TCP/IP, Unix-Sockets or named pipes under Windows XP
- Support of SQL 92 Standard (entry level) and ODBC (level 0-2)

The following SQL operations are not supported by MySQL:

- Transactions, including the corresponding operations Commit and Rollback
- Foreign Keys

2.2.5.4 Web application

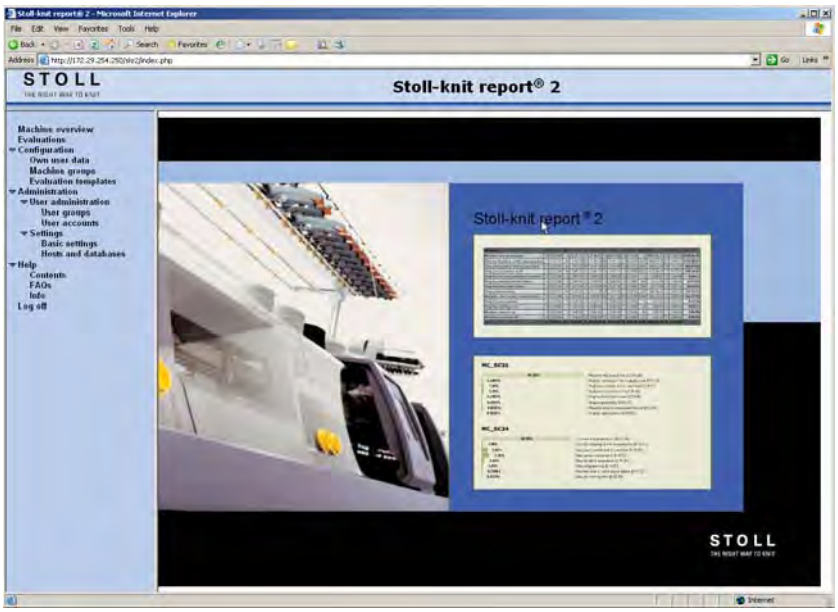
The web application has the task of evaluating data:

- The web application generates the temporary evaluation databases.
- The web application sends the prompts to the temporary evaluation database(s) per SQL.
- The web application processes the event for HTML display.

2.2.5.5 Web client

The evaluation and evaluation of the recorded data are controlled via a web client.

The web client interprets the HTML generated by the web server and presents the data in a java-script-compatible browser. The presentation consists of HTML documents and bitmaps that are stored on the web server.



Evaluation window of the Stoll-knit report® 2 software (web client)

The web client can be used to execute the following functions:

> **i** Not all the menu branches are always offered, depending on the assignment of the user rights.

- Machine overview: Display the current state of the machines
- Evaluations: Evaluate events of the machine
  - New: Start new evaluation
  - Templates: Start evaluation with a pre-defined template
- Configuration:
  - Own user data: Display, modify own user data
  - Machine groups: Create, change, delete machine groups
  - Evaluation templates: Modify or delete names of user-defined evaluations
- Administration:
  - User administration:
  - User groups: Set up, change, delete user groups
  - User accounts: Create, change, delete user accounts
  - Settings:
  - Basic settings: General settings
  - Hosts and databases: Definition of the host computer, the databases and the tables
- Help:
  - Contents: Call up table of contents of the online help
  - FAQs: Call up the FAQ page of Stoll

- Log off: Log off the system.

For this, see also...

Evaluating the Stoll-knit report® 2 [▶ 53]

2.2.5.6 Administrator programs

The administrator programs are used to configure the Stoll-knit report® 2. They may only be run by administrators or trained personnel and are only available directly for the SKR2 central unit.

The administrator programs have the following tasks:

- Administration of the machines to be queried and configuration settings
- Administration of the user-defined events
- Archiving of the data in archive files and restoring to the archive database
- Backing up of the live database (Backup) and restoring of the live database
- Displaying the log file.

The following administrator programs are available:

Program name	Task
Machine administration (Skr2AdminInterface.exe)	Administering the machine list
Data backup (Skr2ArchiveTool.exe)	Back up and restore evaluation data (Archiving or Backup)
User Event Administration (Skr2UserEventTool.exe)	Defining and administering user-defined events
Log File Viewer (ABLogFile.exe)	Displaying log messages

Executable administrator programs

For this, see also...

Administrator tasks [▶ 123]

3 Installing the Stoll-knit report® 2

This section contains the following information:

For this, see also...

- Hardware requirements [▶ 30]
- Networking [▶ 31]
- Installing the Stoll-knit report® 2 software [▶ 32]
- Installing a more recent version of the Stoll-knit report® 2 software (updating) [▶ 37]
- Removing the software [▶ 36]
- Checking settings in Internet Explorer [▶ 38]
- Activating the Stoll-knit report® 2 software on the knitting machine [▶ 44]
- Help [▶ 119]

3.1 Hardware requirements

The following hardware has to exist:

- Ethernet connection with at least TCP/IP (3.6)between the machines (with Stoll operating system from version OKC or 100 MBit/s on) and the computer
- Not more than 250 machines
- Uninterruptible power supply for the computer (UPS)
- Stand-alone computer for the SKR2 central unit, the database server, the web server and the web application.

  The computer has to operate continuously.
  - CPU: At least Pentium IV with 3 GHz or more
  - Main memory (RAM) approx. 2 GByte
  - Operating system: Windows XP Professional, Windows7 (32bit)
  - Hard disk: At least 120 GByte, with rapid write access,
    Hard disk size according to the quantity of connected machines, the quantity of events and the evaluation period. Required space per 10,000 events: Approx. 1.5 Mbytes.
    Recommendation: Separate hard disk for the database
  - Color monitor: Resolution: SVGA

	**CAUTION**
	Data loss! Power interruptions and fluctuations can cause data losses. ➜ Use an uninterruptible power supply (UPS). ➜ Back up (Backup) and archive the live database at regularly.

3.2 Networking

The Stoll-knit report® 2 software is based on the networking of the machines per TCP/IP with the SKR2 central unit. An SKR2 combination of up to 250 machines is possible. This means that a network infrastructure first has to be created. The machines fulfill all the requirements needed to allow networking per TCP/IP (configuration of the IP address, network mask, etc.).

However, a network can be set up by many different means. Planning and implementation of the networking depends of a number of factors. Influencing factors are, for example, the number of and the distance between the components to be networked, the inclusion in the company network, access to Internet, etc.

	In addition to the technical questions, security places an enormous role. The network has to be designed so that authorized access is possible, but unauthorized access is prevented. In addition, protection against viruses and worms becomes increasingly important. The user interface of Stoll machines is based on Windows and is thus a potential target for attacks.

	Information about the networking of Stoll knitting machines, pattern units and valuation computers can be found in the Stoll operating instructions on networking. In order to ensure that design, installation, setting up and maintenance are fitted best to your requirements, please consult a local network service provider.

3.3 Installing the Stoll-knit report® 2 software

Scope of supply

The installation DVD contains the following components:

- Software for the SKR2 central unit
- Database server
- Web server
- Web application (Php application, Php documents, HTML documents, bitmaps)

USB hardlock

- The Stoll-knit report® 2 software is protected against unlicensed usage by copy protection.
- This copy protection consists of a USB hardlock.
- The USB hardlock must be connected to the USB socket of the computer during installing and operation.
-  informs about the missing USB hardlock
  With an additional acoustic warning with Windows XP.

	NOTICE
	Loss of License If you have lost the hardlock you will not get any replacement from Stoll for the thereby lost license.

Install the software:

i	Apache HTTP Server If a version of the Apache HTTP Server is already installed on the computer, this fact is displayed during the installation. You can choose whether you want to retain this version or whether the installation program is to overwrite this version. The configuration files of an existing Apache HTTP Server software installation are always adapted. It is advisable to always use the version that is specified by the installation programme.

i	Adobe Reader: You need the Adobe Reader® (version 4.0 or higher) in order to print out the evaluations.

▷ The operating system must already be installed on "drive C".

▷ The hardware requirements have to be fulfilled.

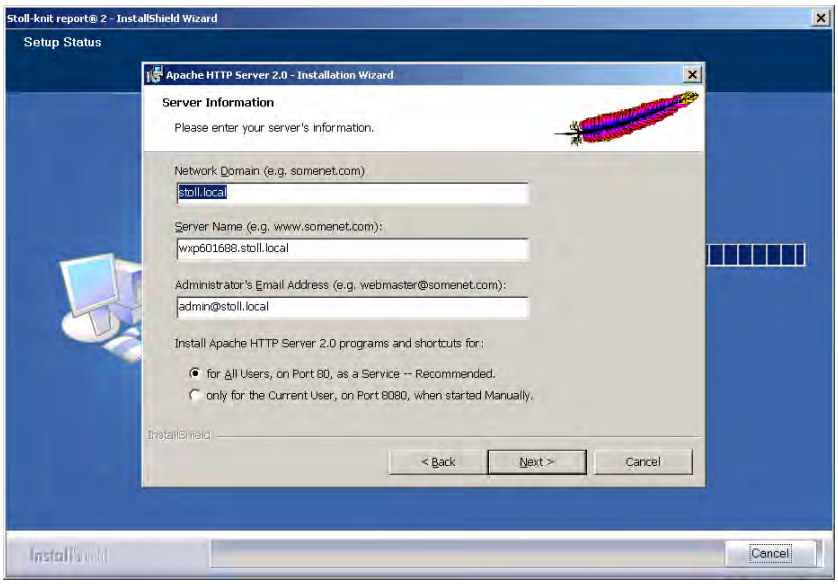
In particular the hard disk drive for the database must have sufficient space or a further hard disk must be available to this purpose.

1. Log on as a user with administrator rights.
2. Insert provided hardlock in the USB socket of the computer.

3. Insert the installation CD in the CD drive.

⇨ The installation is started automatically.

4. Select the desired language and click the "OK" command button.
5. Follow the instructions of the installation programme.
6. Entries may have to be changed in the "Server Information" window in order to adapt the network environment. Here the entries that were specified during the installation of the operating system are displayed automatically.

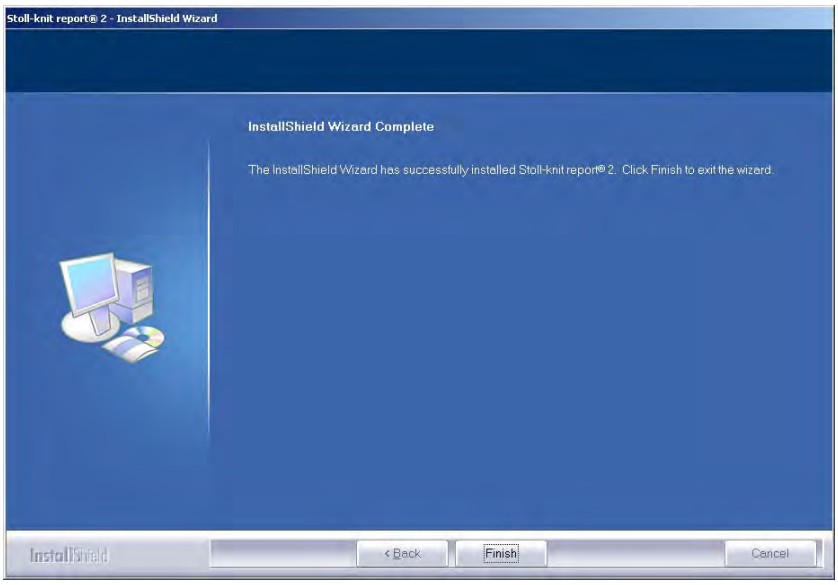


"Apache HTTP Server" window

Field	Explanation
Network Domain	Ask for domain name from network supervisor. The name can be selected freely at an intranet.
Server Name	Name under which this server can be reached. Normally this is SKR2WEB.<network domain>
Admin. Email Address	All the error messages of the Apache HTTP Server are sent to this address. The address has to be configured. The service has to be available on Port 80 for all the users.

7. Continue the installation by clicking the "Next" command button.

⇨ The following window is displayed when the installation is complete.



"InstallShield Wizard complete" window

8. Click the "Complete" command button.
   ⇨ A browser window with information about the further action is open.
9. Remove the installation CD from the CD-ROM drive.
   ⇨ The installation has been completed.

For this, see also...

Hardware requirements [▷ 30]

3.3.1 Further procedure

1. Checking settings in Internet Explorer:
   Activate IFRAMES.
   Activate Active Scripting.
   Allow the display of popup windows.
   Set the screen display to 96 dpi.
2. Administering the SKR2 central unit of the Stoll-knit report® 2 software:
   Administer the machine list.
3. Start the evaluation.

For this, see also...

- Checking settings in Internet Explorer [▸ 38]
- Administering machines [▸ 132]
- Starting the evaluation of the Stoll-knit report® 2 software [▸ 54]
- Stoll-knit report® 2 and Windows 7® [▸ 42]

3.4 Removing the software

The software is removed by using the user interface of Windows XP ("software").

1. Click "Control Panel" in the "Start" menu.
   ⇨ The "Control Panel" window is opened.
2. Click the "Software" entry.
   ⇨ The "Software" window is open.
3. Click "Add / Remove".
4. Click Stoll-knit report® 2 in the list of programmes currently installed.
   ⇨ The software is removed.

3.4.1 Installing a more recent version of the Stoll-knit report® 2 software (updating)

CAUTION

Data loss!
Whenever new software is installed, the danger that data may be overwritten or deleted is always present!
➜ Back up the live database.

1. Log on as a user with administrator rights.
2. Insert the installation CD with the update software in the CD drive.
   ⇨ The installation is started automatically.
3. Select the desired language and click the "OK" command button.
4. Follow the instructions of the installation programme.
5. Before the new version is installed, a prompt asking whether or not the existing database is to be deleted appears.
6. Answer the question and continue the installation with the "Finish" command button.
7. Remove the installation CD from the CD-ROM drive.

3.5 Checking settings in Internet Explorer

"Back" button

The setting for the IFRAMES must be activated so that the "Back" command button in the toolbar of the Internet Explorer functions properly.

The command button "Back" cannot be used in the evaluations due to technical reasons.
An error message is displayed.
➜ Use the "Modify evaluation" button.

IFRAMES (integrated frames) are integrated frames in the browser that are used as design elements.

"Back" button

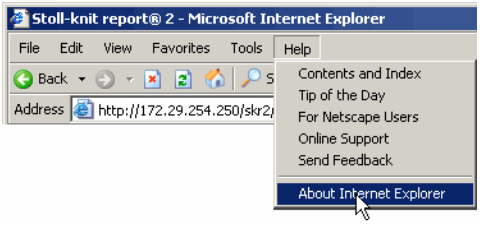
Javascript

Javascript is used partially on the HTML pages for the display. The scripting has to be activated in the security settings of the browser in order for the HTML pages to be displayed correctly.

The following pictures refer to the Internet Explorer 6 (Windows XP). Depending on the version, the appearance may differ somewhat, but the setting is carried out in the same way.

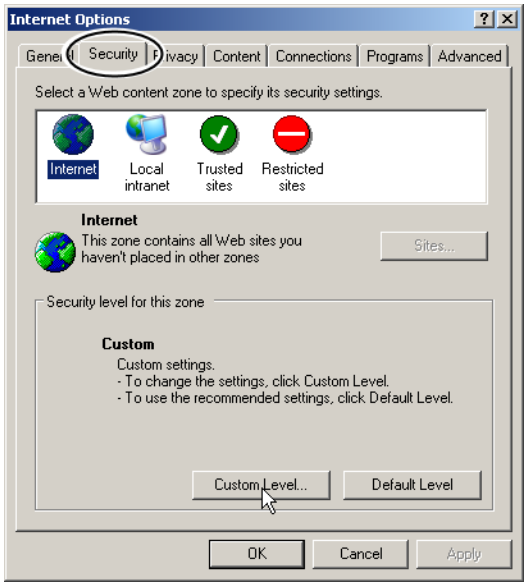
Check the setting for the IFRAMES and for the Javascript:

1. In the toolbar of the Internet Explorer, call up the "Extras / Internet Options" menu.



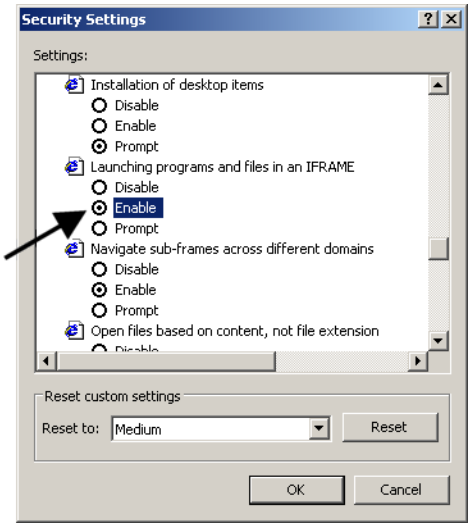
"Tools" menu

2. In the "Internet Options" window, select the "Security" tab and click on the "Adapt level" command button.



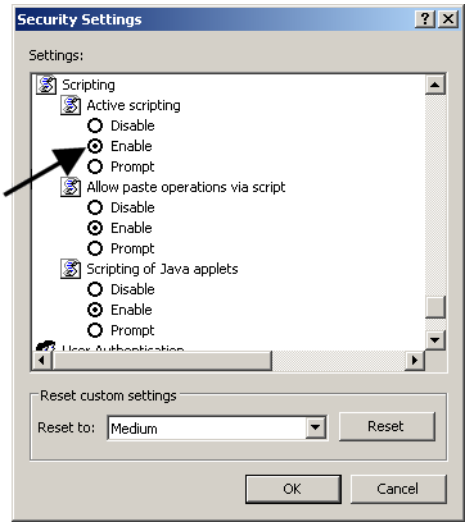
"Internet Options" window

3. In the "Security Settings" window, find the setting **Start programs and files in an IFRAME**. It is located at the end of the setting options in this window. Check whether the **Enable** setting is switched on. If not, activate this setting.



"Security Settings" window

4. Search for the Active Scripting setting in the "Security settings" window. It is located in the middle of the setting options in this window. Check whether the **Enable** setting is switched on. If not, activate this setting.



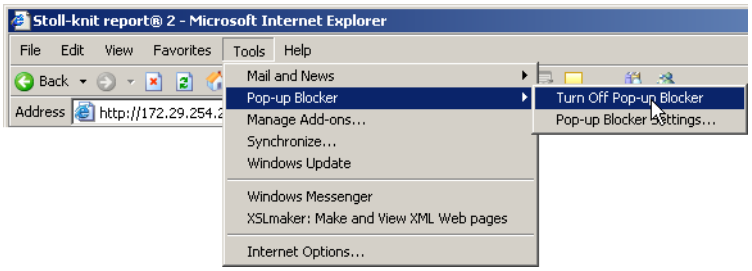
"Security Settings" window

5. Click the "OK" or "Yes" button repeatedly until the Internet Explorer window is displayed again.

Allowing the display of pop-up windows

The display of pop-up windows can be suppressed in some browsers (pop-up blockers). The Stoll-knit report®2 software needs these pop-up windows in order to display results.

➜ Deactivate the pop-up blocker in the browser that you want to use for the evaluation.

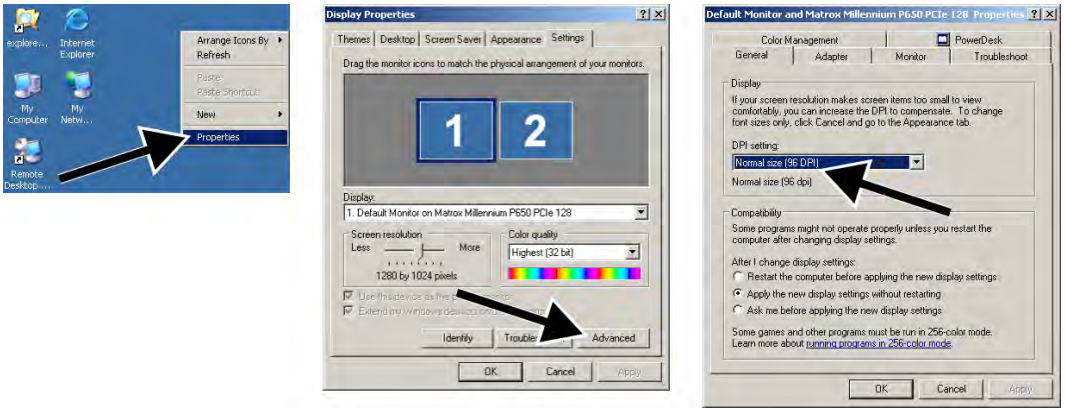


Deactivating the pop-up blocker

Set screen resolution

The screen resolution should be set to 96 dpi in the menu "Machine overview" for proper alignment of the symbols.

1. Right-click at an blank location of the desktop.
2. Click on the key "Properties" in the context menu.
3. Click on the key "Advanced" in the window "Properties of the display" (Settings).
4. Set the "DPI setting" in the "Properties..." window to 96 dpi.
5. Confirm input.



Set screen resolution

3.6 Stoll-knit report® 2 and Windows 7®

If you want to use Windows 7® as operating system for the SKR2 server:

- 32bit version only
- Professional version recommended
- Sleep mode deactivated

  "Control Panel" / "All Elements of Control Panel" / "Power Options" / "Edit Power Options"
- For safety Windows 7 does not allow background services to show messages on the desktop.

  As a result, the SKR2 service can not show a message in case of error.
  As before, the SKR2 state icon will be changed.
  Open the "Machine overview" in order to detect the machines in state of error.
  The error message appears as tool tip.
- With Windows 7 you can not change the time by mistake.

  The clock remains displayed.

  With Windows XP the clock of the taskbar of the SKR2 server is hidden as the time of all the connected knitting machines may easily be misadjusted.

How to activate "Show Icon and Notification" in the task bar for SKR2:

▷ The SKR2 server is installed.

1. Open 

"Control Panel" / "Notification Area Icons".
2. Select "Show Icon and Notification" in the list field next to  MFC skrtray .

⇨  is shown in the task bar.

 informs about the missing USB hardlock

---

ℹ No acoustic warning with Windows 7

---

4 Stoll-knit report® 2 software on the knitting machine

This section contains the following information:

For this, see also...

- Activating the Stoll-knit report® 2 software on the knitting machine [▷ 44]
- Triggering a user-defined event [▷ 48]
- Triggering a Sintral generated event [▷ 52]

4.1 Activating the Stoll-knit report® 2 software on the knitting machine

You can activate the Stoll-knit report® 2 software either after the machine has been switched on or while the machine is running.

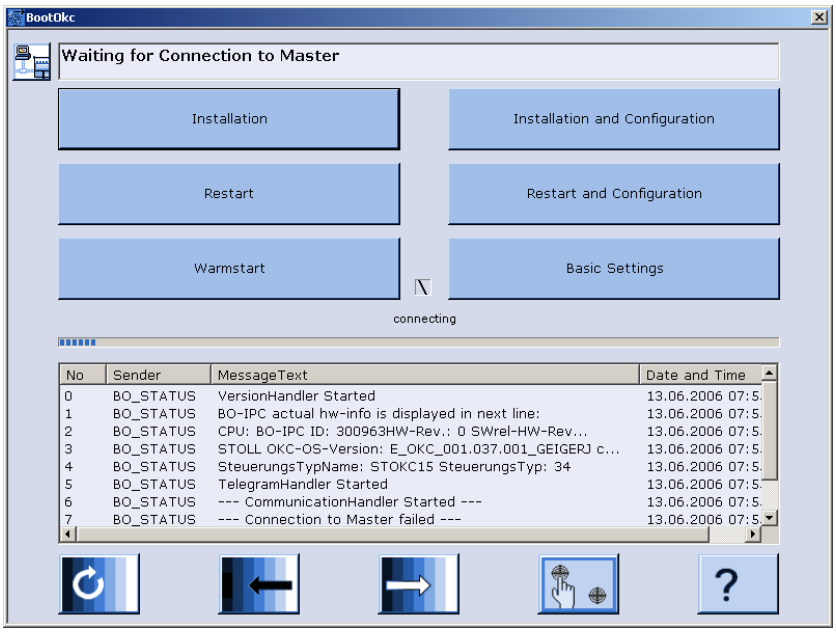
i	This setting is also retained after the machine has been switched off. Basic setting: **Automatic**

Activating after the machine has been switched on

1. Turn the main switch at the front of the machine to 1.

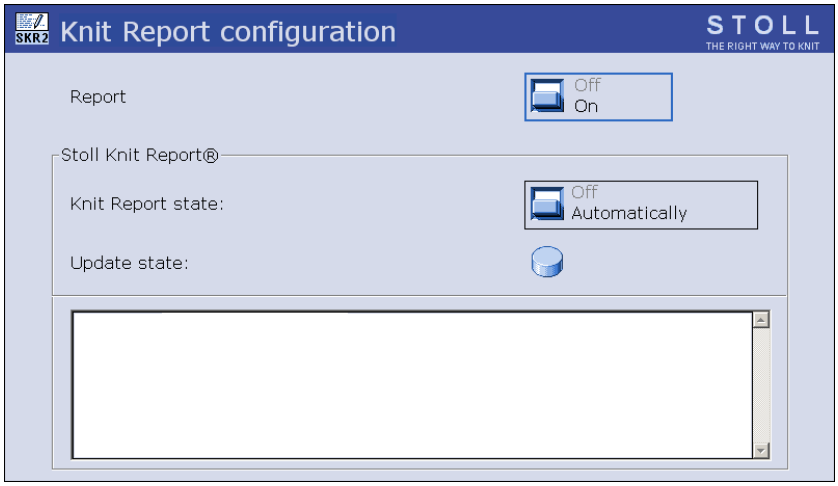
⇨ The Stoll logo is displayed.

As soon as the machine is ready to operate, the "TC START MENU" window appears.



"TC START MENU" window.

2. Activate "Restart and Machine Configuration"..
3. At the subsequent menus click the "Next" command button until the "Knit report configuration" window is displayed.



"Knit report configuration" window

4. Set the "Knit report status" switch to **Automatic**(basic setting).

⇨ The Stoll-knit report® 2 software is now activated. The machine data are generated and stored temporarily and can be used by the Stoll-knit report® 2 software for evaluation.

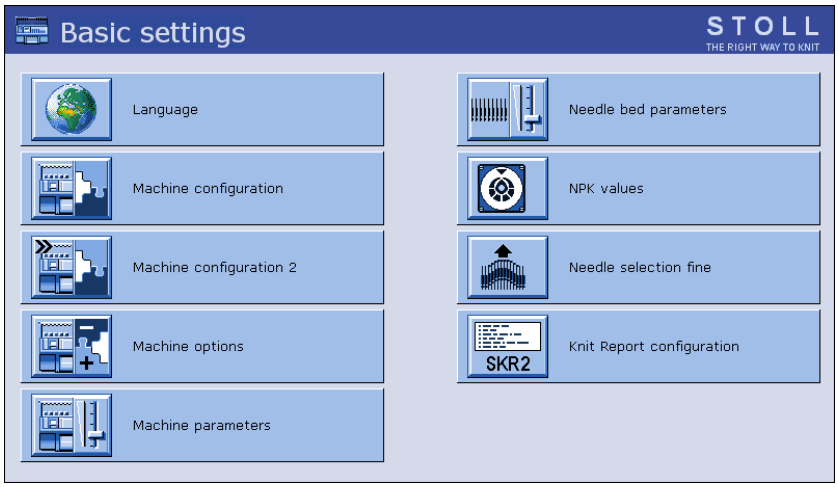
Activating while the machine is switched on

Key	Function
	Call up the "Service" window
	Call up the "Basic settings" window
	Call up the "Knit report configuration" window
	Confirm selection
	Call up "Main menu".

1. Call up the "Service" window.

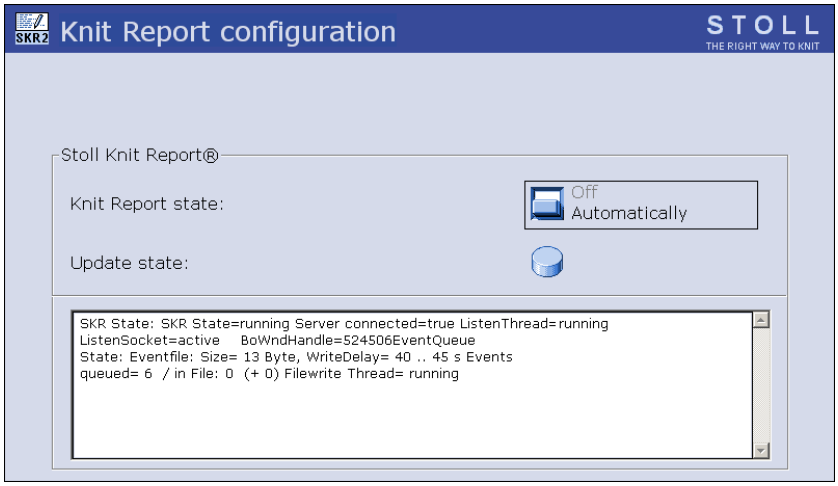
"Service" window

2. Call up the "Basic settings" window.



"Basic settings" window

3. Call up the "Knit report configuration" window



"Knit report configuration" window

4. Set the "Knit report status" switch to **Automatic**(basic setting).

⇨ The Stoll-knit report® 2 software is now activated. The machine data are generated and stored temporarily and can be used by the Stoll-knit report® 2 software for evaluation.

States of Stoll-knit report® 2 software on the machine

State	Explanation
"Off"	If the "Knit report status" switch is set to **Off**, this machine cannot be used for evaluation by the Stoll-knit report® 2 software. This state can only be changed at the machine.
"Automatic"	This state is subdivided into two further states: Standby mode: The machine does not generate any events, but reacts to a switch-on request from the SKR2 central unit. To: Machine generates events. The machine can be switched to the standby mode via a request from the SKR2 central unit.

The status is shown below the switch.

- Machine cannot be reached
  (e.g. no network connection, event server is not running, machine is switched off, etc.)
- Machine is currently being queried by the Stoll-knit report® 2 software or machine is currently not being queried by the Stoll-knit report® 2 software

4.2 Triggering a user-defined event

In addition to those events generated by the machine, events can also be triggered by the knitter on every knitting machine. These user-defined events are specified, managed and transferred to the knitting machine(s) by an administrator using an administrator programme

There are two types of events:

- Events of the Info type:
  An event of the type Info is entered in the database with the time of occurrence. No further action is carried out.
  During the evaluation the event is displayed with the moment of its occurrence and the corresponding text.

Events of the State type:

An event of the State type is also entered in the database with the time of occurrence. At the same time the status is increased.

During the evaluation, the beginning, the end and the duration of the event is displayed with the corresponding text.

Example: Event of the Info type

➜ The machine stops because a bobbin is empty. The knitter replaces the bobbin and triggers the user-defined event **Bobbin replaced**.

▶ The event **Bobbin replaced** is entered in the database together with its moment of occurrence.

Example: Event of the State type

The administrator has, for example, defined the following user-defined events:

#	Type	Symbol	Text
1	State	**01**	Machine not productive
2	State	**02**	Machine productive
3	State	**03**	Machine being maintained
4	State	**04**	Lubrication process
5	State	**05**	Equipping time
6	Info	**06**	Yarn change

▷ The event **Machine not productive** is triggered as the last user-defined event.

1. The knitter takes up work and triggers the event **Machine productive**.

⇨ The event is recorded together with its moment of occurrence in the database. At the same time the status is set to **2**.

2. After a certain period the knitter has to carry out maintenance at the machine. He triggers the **Machine being maintained** event.

⇨ The event is recorded together with its moment of occurrence in the database. At the same time the status is set to **3**.

3. After completing maintenance the knitter has to carry out repositioning of the yarn carrier limiter. He triggers the **Equipping time** event. The event is recorded together with its moment of occurrence in the database. At the same time the status is set to **5**.
4. After maintenance and re-equipping the knitter triggers the event **Machine productive**.

⇨ The event is recorded together with its moment of occurrence in the database. At the same time the status is set to **2**.

5. At the end of the shift the knitter triggers the event **Machine not productive**.

⇨ The event is recorded together with its moment of occurrence in the database. At the same time the status is set to **1**.

	The status corresponds to the number specified under **#**.

i	The respective status is retained until the next event of the type **State** is triggered and sets the status in accordance with its **#**.

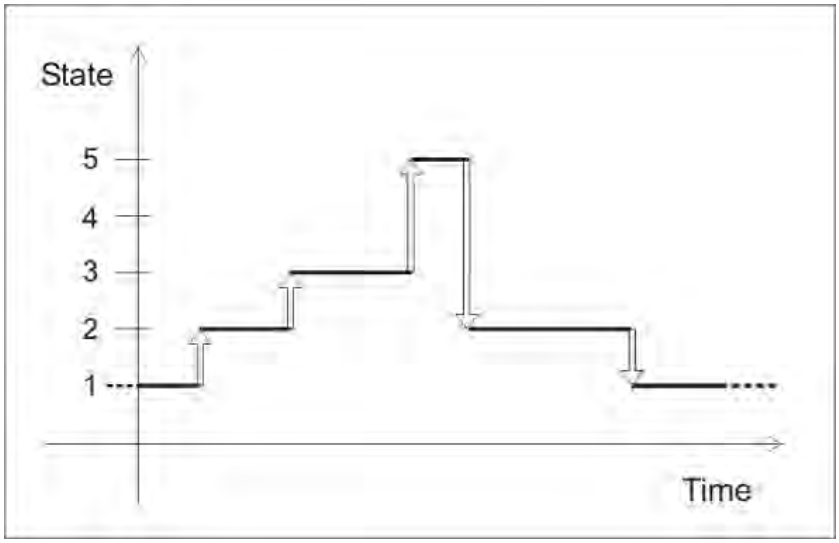


Diagram with the status changes

Triggering a user-defined event

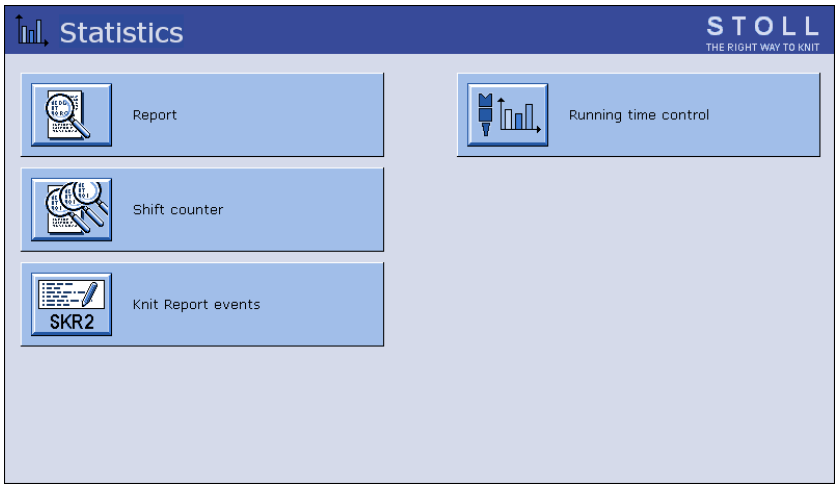
Key	Function
	Call up the "Service" window
	Call up "Statistics" window
	Call up "Knit report events" window
	Confirm selection
	Call up "Main menu".

▷ The corresponding event is defined by the administrator.

1. Call up the "Service" window.

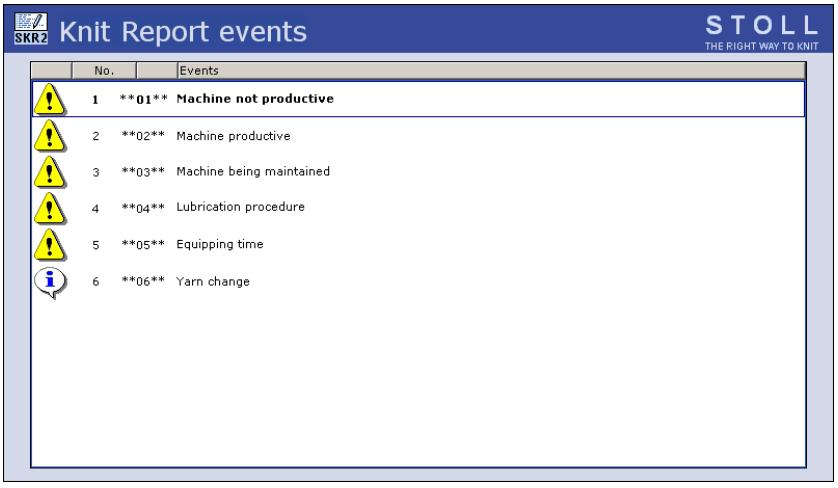
"Service" window

2. Call up the "Statistics" window



"Statistics" window

3. Tip on "Knit report events".



"Knit report events" window

Symbol	Explanation
	Event of the State type
	Event of the Info type
Nr.	Status of the event.
01 bis **06**	Symbols defined by user
Events	Text defined by user

4. Select corresponding event.
5. Confirm input.

⇨ The event is triggered and recorded in the database.

4.3 Triggering a Sintral generated event

In addition to those events generated by the knitting machine, events can also be triggered by the Sintral program.

Enter one of the following PRINT commands into Sintral at the corresponding position for this purpose.

Syntax	Explanation
PRINT "@SKR#:text"	@SKR = Identifier # = Current number text = Any ASCII characters (comment, is displayed on the machine touch screen) This command causes an entry in the database without the Sintral status being changed
	The command PRINT "@SKR2:xyz" causes the entry (#2) in the database with the time of its occurrence. No further action is carried out. During the evaluation the event is displayed with the moment of its occurrence and the corresponding text.
PRINT "@SKR#S:text"	@SKR = Identifier # = Current number S = Causes a change in the Sintral status text = Any ASCII characters (comment, is displayed on the machine touch screen) This command causes an entry in the database with the Sintral status being changed
	The command PRINT "@SKR4S:abc" causes the entry (#4) in the database with the time of its occurrence. The Sintral status is set to **4**. During the evaluation, the beginning, the end and the duration of the event is displayed with the corresponding text.

The status corresponds to that specified with **#**.

The respective status is retained until the next Sintral command with the syntax PRINT "@SKR#S:text" is executed and sets the status in accordance with its #.

> **i** If this command is included in a programme loop, this may cause overloading of the network and of the database because this event is generated constantly.

For this, see also...

Triggering a user-defined event [▶ 48]

5 Evaluating the Stoll-knit report® 2

This section contains the following information:

For this, see also...

5.1 Starting the evaluation of the Stoll-knit report® 2 software

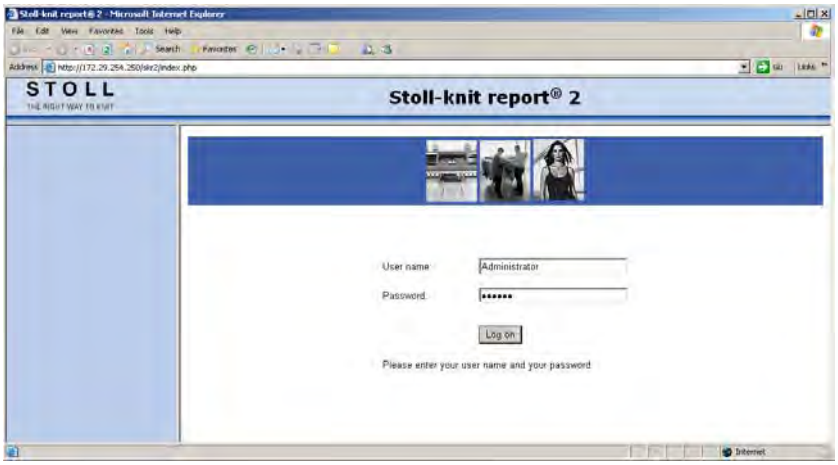
▷ The Stoll-knit report® 2 software is installed.

▷ Data have been recorded.

▷ A live or archive database is available for evaluation.

1. Start Internet Explorer or a comparable browser.
2. Enter the connection to the web server in the "Address" line.
   It is: http://localhost/skr2

⇨ The following browser window is opened.



Logging on in the browser window

3. Enter Administrator in the "User name" field and secret in the "Password" field of the "User logon" window when the software is called up the first time.

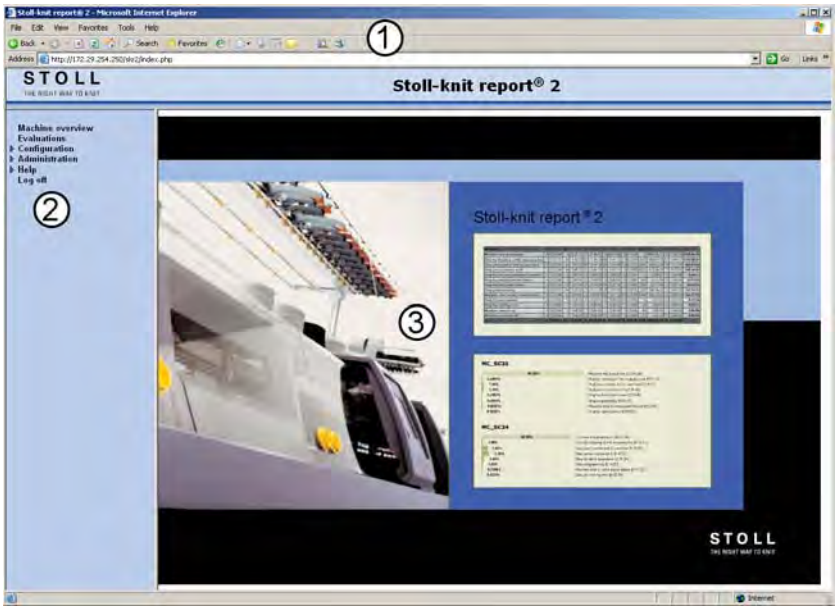
   - or -

➜ Enter the corresponding user name and password assigned by the administrator.

i	Password and user settings are carried by the administrator in the "Administration / User administration / User data" menu. The user can change his settings in the "Configuration/Own files" menu.

4. Click the "Log on" command button.

⇨ The evaluation window of the Stoll-knit report® 2 software in opened in the browser (in this case Internet Explorer).



Evaluation window of the Stoll-knit report® 2 software (web client) in the browser

1 Title bar, menu bar, address bar of the browser (depending on the browser and the settings)

3 Display field Stoll-knit report® 2 software
The display in this field changes depending on the menu selection.

i	Not all the menu branches are always offered, depending on the assignment of the user rights. The security settings of the browser have to be configured correctly in order for the evaluations to be displayed correctly (IFRAMES, Active Scripting). In addition, the pop-up blocker has to be deactivated

Opening or closing the menu structure:

➜ Click the triangle before the menu entry.

▶ The menu tree is folded open or closed.

Displaying the menu:

➜ Click the menu entry (without triangle).

▶ The menu is displayed in the display field.

The individual menus are explained in the following sections. The order corresponds to that of the menu tree in the start window, not to the logical procedure during the evaluation.

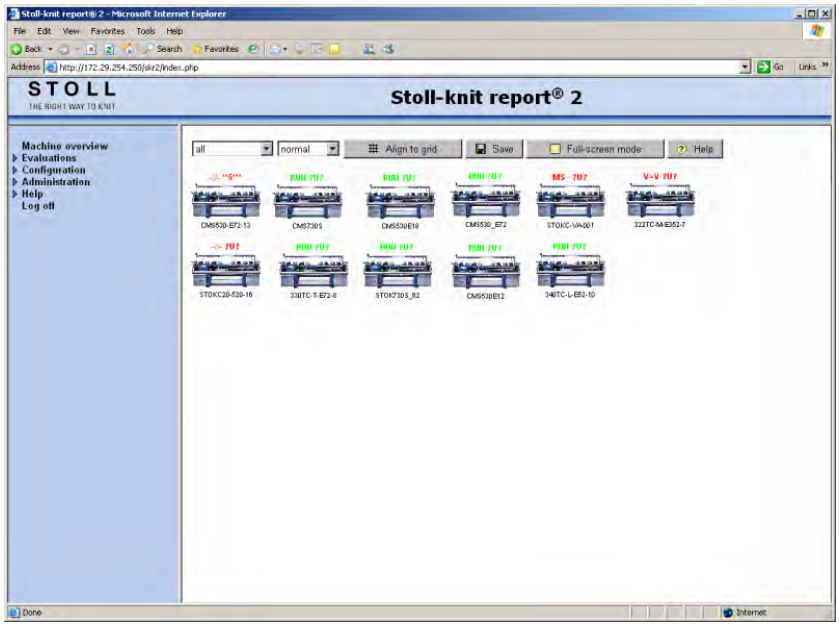
For this, see also...

- User administration [▶ 108]
- Own user data [▶ 104]
- Checking settings in Internet Explorer [▶ 38]

5.2 Displaying the machine overview

In this menu the machines are displayed in groups or as an entirety. Only those machines are displayed that have been activated by the administrator for the evaluation. The selected machines are displayed graphically (or only as text) with machine name and state. The symbols can be moved as desired. A background image can be displayed in order to obtain a better overview (for example a scanned building layout).

1. Select the "Machine overview" menu in the start window.



"Machine overview" menu

2. In order to display a machine group or all the machines, change the selection in the list (all, Group 1, Group n).
3. To change the resolution of the representation, change the selection in the list (normal, no images, large, small)..
4. To display the name, the exact machine type and the detailed current status of the machine as a text, position the cursor on the machine image and wait briefly. A tool tip with the information is displayed.
5. To move a machine representation around the monitor, click it once, move it and click once again.
6. To align all the represented machines, click the "Align to Grid" command button. Set the screen resolution to 96 dpi in order to get correct displacements.
7. In order to switch the display to full-screen mode click the "Full-screen mode" command button. Only possible if the pop-up blocker is deactivated in the browser.
   If the pop-up blocker is activated, press the "Ctrl" button and simultaneously click the "Full-screen mode" command button.
   In order to switch the display back to normal mode click the "Normal mode" command button.
8. Click the "Save" command button in order to save the settings.
9. In order to display a background image, activate the "Show floorplan" option in the "Administration/Settings/Basic settings" menu, load an image using the "Browse" command button and enter the image size under "Floorplan image size".
10. In order to change the font sizes for the machine names and states enter the font size in the "Administration/Settings/Basic settings" menu.

11. In order to display the machine names and the user-defined (machine) states activate the corresponding option in the "Administration/Settings/Basic settings" menu.
12. In order to select the color of the machine state as the background color for a machine symbol activate the "Background color = Machine state" option in the "Administration/Settings/Basic settings" menu.
13. Contact your administrator in order to activate further machines for the evaluation or in order to change machine names.

Machine state

The machine state shown here consists of three parts:

- Characters 1 to 4: Machine state, for example, ; -//-
- Character 5: Blank
- Characters 6 to 11: Symbol of an event triggered by the user of the type State, for example: **01**

Characters 5 to 11 (blank and symbol) can be activated or deactivated in the "Administration/Settings/Basic settings" menu.

By default the characters are deactivated.

Symbol	Color	Meaning
RUN	green	Machine in production
-//-	red	No connection
-//-	Magenta	At connection establishment
MS~	red	Stop: Other
%	red	Stop: Fabric take-down
/-\	red	Stop: Yarn feed
V=V	red	Stop: Engaging rod
PR	red	Stop: Program
000	red	Stop: Piece counter to 0
>!	red	Stop: Stop resistance
-/)	red	Stop: Position needle sensor
->|	red	Stop: Shock stop motion
V[]	red	Stop: Racking error
???	black	Machine unknown
e.g. **01**	-	Events triggered by the user (State type)
?U?	-	Unknown state triggered by the user

For this, see also...

- Administering machines [▸ 132]
- Basic settings [▸ 114]

5.3 Evaluations

The parameters and filters as well as the appearance of the tables have to be specified in order to carry out an evaluation of the data.
Afterwards the individual evaluations are described.

For this, see also...

- Evaluation parameters [▶ 59]
- Appearance of the displayed lists [▶ 67]
- Filters for the evaluation [▶ 68]
- Displaying evaluations [▶ 69]
- Event list [▶ 70]
- Production report [▶ 72]
- Production report (new) [▶ 74]
- Stop motion statistics machines [▶ 76]
- Stop motion statistics machines (graphically) [▶ 78]
- Stop motion statistics Pattern per machine [▶ 81]
- Stop motion statistics Pattern per shift [▶ 83]
- Pattern statistics per machine [▶ 86]
- Pattern statistics per shift [▶ 88]
- Course machine states per machine [▶ 90]
- Course machine states per machine (graphically) [▶ 92]
- Course user-defined states per machine [▶ 94]
- Course Sintral-generated states per machine [▶ 96]
- Standstill time machines [▶ 98]
- Standstill times machines (graphically) [▶ 100]
- Production statistics per shift [▶ 101]

5.3.1 Evaluation parameters

The parameters of the evaluation can be set in two ways:

- New: The "Evaluation" menu is open.

  Here you set all desired parameters for the evaluation.

  The settings can be saved as template for recurring evaluations.

  Only parameter settings but no filter settings are saved.
- Templates: The "Evaluation templates" menu is open.

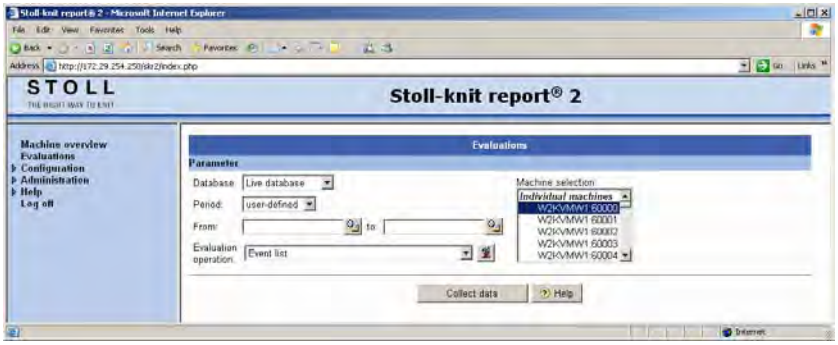
  Here you select an previous saved evaluation template. The template contains all parameter settings for the evaluation.

The modes are described in the following sections:

For this, see also...

New [▶ 60]
Templates [▶ 64]

5.3.1.1 New



"Evaluations" (parameters) menu

Field	Explanation
Database	Select the database that is to be used for evaluation.
Period of time	Select the predefined period.
From: ... to: ...	Enter the display of the predefined period or user-defined period.
Machine selection	Selection of the individual machines or machine groups for the evaluation.
Evaluation operation	Selection of the evaluation operation.
	Updating the period **From: ... to:**.
	Timing entry per calendar.
	Specifying the appearance of the tables (not possible at all evaluations).
Collect data	This command button triggers the process of configuring data. With it, the temporary database is created.
Save as template	This button opens the menu "Evaluation templates" for saving the template.
Help	This command button calls up the online help for the corresponding menu.

Select database:

➜ Select a database in the "Data source" list field.

Select the predefined period of time:

➜ Select a period in the "Period" list field.

▶ The input fields "From... to..." are automatically filled out.

The values have to be entered at "user-defined".

The specified periods can be overwritten. The entry in the "Period" field then changes to "user-defined".

Entering the user-defined period:

1. Click the "From" field.
2. Enter the date and time in the format DD.MM.YYYY hh:mm.
   e.g. 10.05.2011 10:30
   The format depends on the Windows settings (date format).
   - or -

➜ Click the symbol next to the input field and select the date in the calendar and enter the time.

3. Click the "to" field.
4. Enter the date and time in the format DD.MM.YYYY hh:mm.
   e.g. 10.05.2011 11:30
   The format depends on the Windows settings (date format).
   - or -

➜ Click the symbol next to the input field and select the date in the calendar and enter the time. Then click an empty area of the menu.

Select the machine whose data are to be evaluated:

➜ Select the machine(s) or the machine group(s) whose data are to be evaluated in the "Machine selection" list field.

Multiple selection is possible if you press the "Shift" button of the "Ctrl" button together with the mouse click.

Selecting the evaluation operation:

➜ Select the corresponding evaluation operation in the "Evaluation operation" list field.

The following evaluation operations can be carried out:

	Evaluation	Explanation
1	Event list	Listing of the generated machine events.
2	Production report	Listing of all the knitted parts in the chronological knitting sequence.
3	Production report (new)	Listing of all the knitted parts in the chronological knitting sequence.
4	Stop motion statistics machines	Listing of all machine stop motions that have occurred.
5	Stop motion statistics machines (graphically)	Graphic presentation of all machine stop motions that have occurred.
6	Stop motion statistics Pattern per machine	Stop motion statistics of all machine stop motions that have occurred, depending on knitted patterns and separated by machines.
7	Stop motion statistics Pattern per shift	Stop motion statistics of all machine stop motions that have occurred, depending on knitted patterns and separated per shift.
8	Pattern statistics per machine	Number of the fabric pieces and their run-through times, separated by machines.
9	Pattern statistics per shift	Number of the fabric pieces and their run-through times, separated by shifts.
10	Course machine states per machine	Listing of the individual machine states in the order of their chronological occurrence, separated by machines.
11	Course machine states per machine (graphically)	Graphic presentation of the individual machine states in the order of their chronological occurrence, separated by machines.
12	Course user-defined states per machine	Listing of the events triggered by the user at the machine, separated by machines.
13	Course Sintral-generated states per machine	Listing of the events triggered by the Sintral program at the machine, separated by machines.
14	Standstill time of machines	Listing of production and standstill times per machines.
15	Standstill times machines (graphically)	Graphic presentation of production and standstill times per machines.
16	Production statistics per shift	Listing of the productivity periods, separated by shifts.

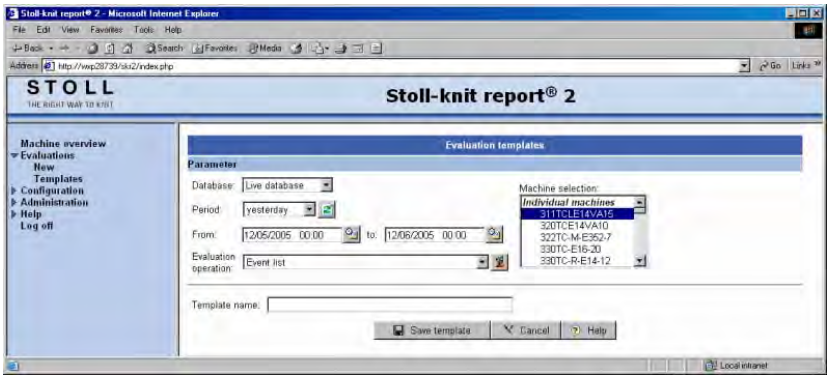
When the "List of events" is selected, a symbol is displayed on the right of the field. If you click this symbol, the "Appearance of the displayed lists" menu is opened.

Save parameters of the evaluation as template:

▷ All settings are carried out.

1. Click the "Save as template" command button.

⇨ The "Evaluation templates" menu is open.



"Evaluation templates" menu

2. Enter a meaningful name in the field "Template name".
   (maximal 50 characters, no special characters)
3. Click the "Save template" command button.

⇨ The settings are saved.

Afterwards the menu "Evaluations" is displayed.

---

i Click the "Cancel" command button in order to cancel the process.

Configuring data

▷ The period is selected.

▷ The machine(s) that are to be used for the evaluation are selected.

▷ The evaluation operation is selected.

▷ The appearance of the table is specified.

➜ Click the "Configure data" command button.

▶ Filters are now displayed in the lower section of the "Evaluations" menu.

---

i Depending on the selected period and the number of machines selected, this process can take some minutes and depends of the amount of data to be evaluated. This process can be terminated by using the "Cancel" command button.

For this, see also...

- Appearance of the displayed lists [▷ 67]
- Filters for the evaluation [▷ 68]
- Displaying evaluations [▷ 69]

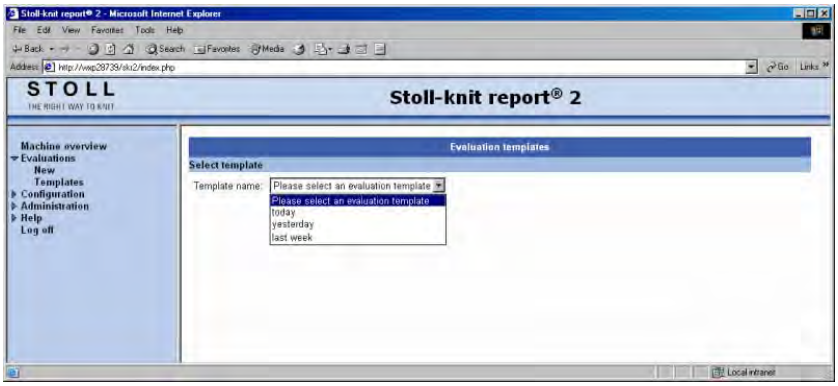
5.3.1.2 Templates

Select a previous saved evaluation template in the "Evaluation templates" window. The template contains all parameter settings but no filter settings.

Select template:

1. Click the "Template" entry in the menu tree.

⇨ The "Evaluation templates" menu is open.

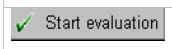


Menu "Evaluation templates"

2. Click in the list "Template name" the favored template.

⇨ The menu "Evaluation templates" appears currently as follows:

Menu "Evaluation templates"

Field	Explanation
Template name	Name of the evaluation template.
Database	Select the database that is to be used for evaluation.
Period of time	Select the predefined period.
From: ... to: ...	Enter the display of the predefined period or user-defined period.
Machine selection	Selection of the individual machines or machine groups for the evaluation.
Evaluation operation	Selection of the evaluation operation.
	Updating the period **From: ... to:**.
	Timing entry per calendar.
	Specifying the appearance of the tables (not possible at all evaluations).
	This command button triggers the process of configuring data. With it, the temporary database is created.
	This button saves the template. The button is active only if you changed the parameters of the template.
	This button deletes the template.
	This command button calls up the online help for the corresponding menu.

3. Click on the "Execute" button.

⇨ The menu "Evaluations" is opened with the parameters specified by the template. Depending on the selected period and the number of machines selected, this process can take some minutes and depends of the amount of data to be evaluated. This process can be terminated by using the "Cancel" command button.

Modify evaluation template:

1. Make the desired changes.

⇨ The button "Save template" is activated.

2. Click the "Save template" command button.

⇨ The template is saved.

Change evaluation template:

➜ Select another evaluation template in the "Template name" list field.

▶ The parameters of the selected evaluation template are displayed.

Delete evaluation template:

1. Select the template to be deleted in the "Template name" list field.
2. Click on the "Delete" button.

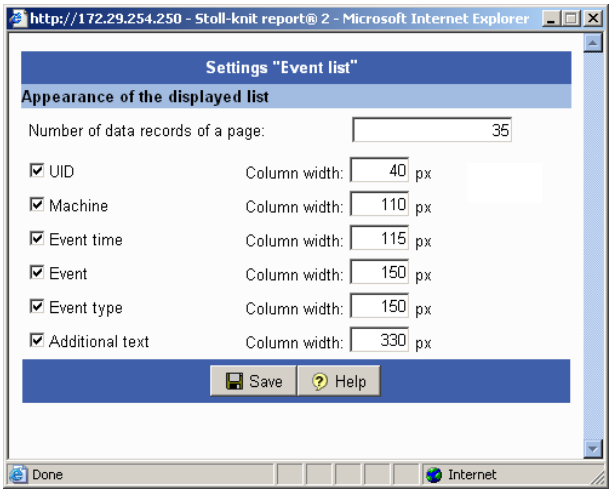
⇨ The template is deleted.

For this, see also...

- Appearance of the displayed lists [▶ 67]
- Filters for the evaluation [▶ 68]
- Displaying evaluations [▶ 69]

5.3.2 Appearance of the displayed lists

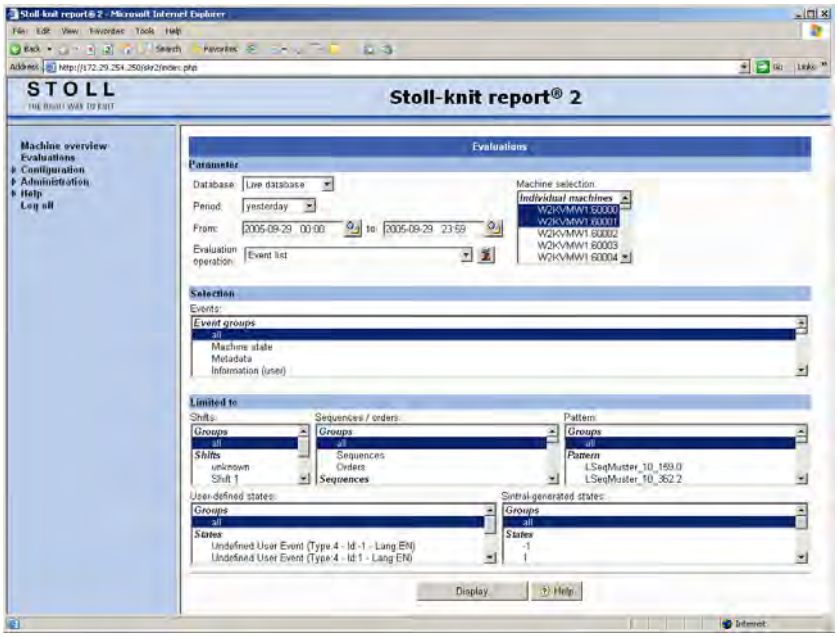
You can define the appearance of the tables for some of the displayed evaluations in the "Appearance of the displayed list" menu.



"Appearance of the displayed lists" menu

1. Enter the number of records per page.
2. Select the columns that are to be displayed.
3. Enter the column width.
4. Confirm the entries with the "Save" command button.

5.3.3 Filters for the evaluation



"Evaluations" (filters) menu

The display in the areas "Selection" and "Limit to" depends on the selected evaluation operation.

Filter	Explanation
Selection	Selection of the events that are to be displayed.
Limit to	Limit events to: Shifts Sequences / orders Pattern Gross / net times User-defined states Sintral-generated states

Selecting a filter:

➜ Click an entry in the corresponding list field.

▶ Only the event that was selected is evaluated. If "All" is selected, all the events are evaluated.

i	Different filters are ANDed. Multiple selections within a filter are ORed.

	Multiple selection is possible if you press the "Shift" button of the "Ctrl" button together with the mouse click.

5.3.4 Displaying evaluations

▷ Data source, parameters and filters are selected.

➜ Click the "Display" command button.

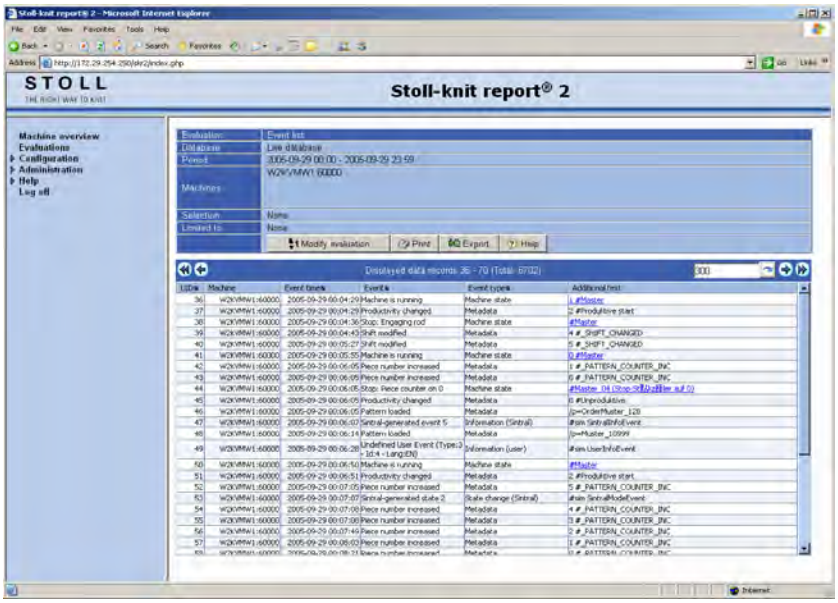
▶ The corresponding table or graphics is displayed, depending on the selected evaluation operation.

i	This process can take some minutes and depends on the amount of data to be evaluated.

	The command button "Back" cannot be used in the evaluations due to technical reasons. An error message is displayed. Instead of it, use the command button "Modify evaluation".

5.3.5 Event list

The "Events list" evaluation operation displays all the events that were generated on the machines. The display depends on the parameter and filter selection.



Menu "Evaluations" with the event list

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

Name	Explanation
UID	Number of entry in the database
Machine	Machine name
Event time	Moment of the event
Event	Name of the event
Event type	Type of event
Additional text	Explanatory text for the event. This text can also be configured as a link. When this link is clicked, a further browser window is opened in which a detailed message is displayed.

The sort sequence can be modified by clicking the column header which is provided with the character . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

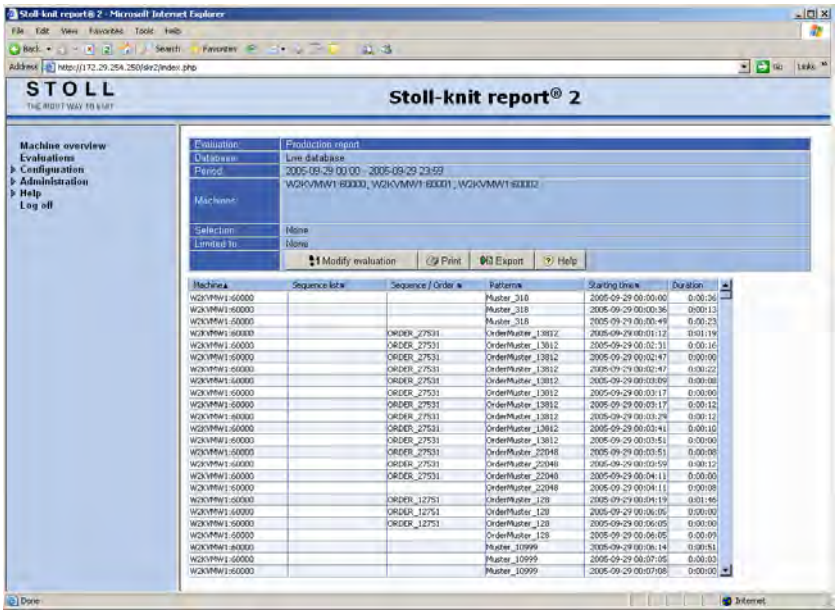
Display	Explanation
...	Column width is insufficient for the display of the text.
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Pages in the table one page in the direction of the table start.
	Pages in the table one page in the direction of the table end.
	The first page of the table is displayed.
	The last page of the table is displayed.
	Input of a data record number. This data record number is displayed in the uppermost place of the table when pressing button .
Modify evaluation	Returns to the parameter and filter setting.
Print	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
Export	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
Help	Calls up the help page for this evaluation.

5.3.6 Production report

The "Production report" evaluation operation lists all the knitted parts in the chronological knitting order. The display depends on the parameter and filter selection.



"Evaluations" menu with the list of all the knitted parts in the chronological knitting sequence

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Entries in the header

Column headers

Name	Explanation
Machine	Name of the machine
Sequence list	Name of the sequence list
Sequence / Order	Name of the sequence or of the order
Pattern	Name of the pattern
Starting time	Beginning of knitting
Duration	Knitting duration

Column headers

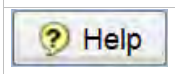
The sort sequence can be modified by clicking the column header which is provided with the character  . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Special features

Used command buttons

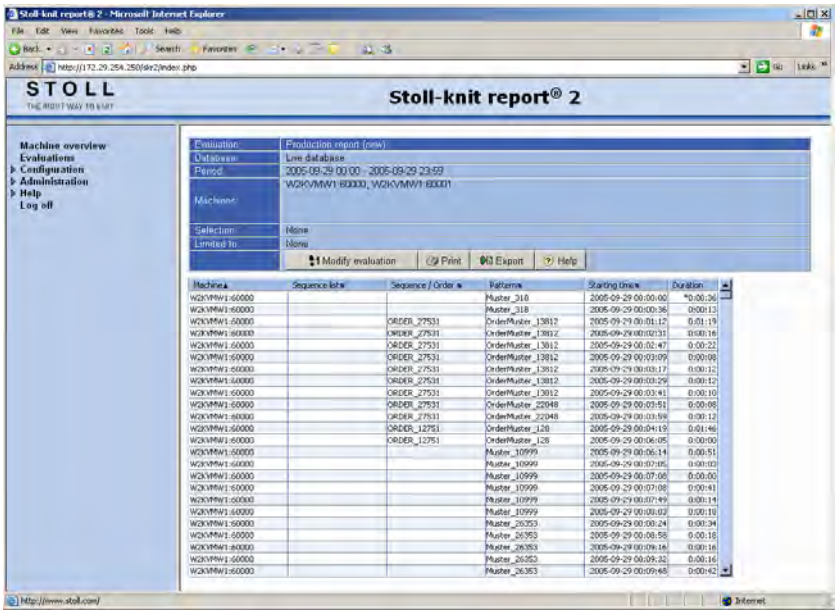
Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

Used command buttons

5.3.7 Production report (new)

The "Production report (new) " evaluation operation lists all the knitted panels in the chronological knitting sequence. The display depends on the parameter and filter selection.

> **i** If the production times of knitted panels are cut by the selection of the evaluation period of time, these are marked by a * in the column "Duration".



"Evaluations" menu with the list of all the knitted parts in the chronological knitting sequence

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

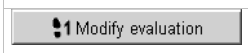
Name	Explanation
Machine	Name of the machine
Sequence list	Name of the sequence list
Sequence / Order	Name of the sequence or of the order
Pattern	Name of the pattern
Starting time	Beginning of knitting
Duration	Knitting duration

The sort sequence can be modified by clicking the column header which is provided with the character  . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

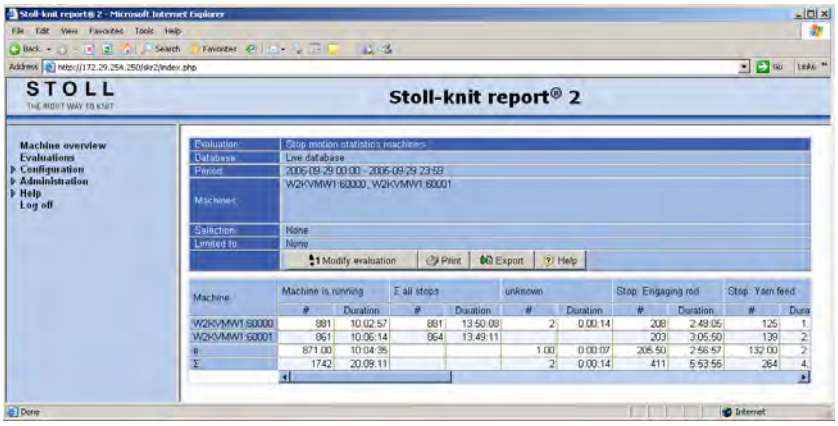
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.8 Stop motion statistics machines

The evaluation operation "Stop motion statistics machines" lists all stop motions of machine that have occurred and their duration. The display depends on the parameter and filter selection.



"Evaluations" menu with the list of stop motions that have occurred

Headers The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

Name	Explanation
Machine	Machine name š $YHUDJH YDOXH ∑: Sum of this type of event
#	Number of events
Duration	Total duration of the corresponding events
Machine running	Production time of the machine
∑: Causes of stop motions	Added number and duration of all causes of stop motions
unknown	Unknown stop motion
Stop: Engaging rod	Stop motion through activation of the engaging rod
Stop: Yarn feed	Stop motion through the yarn feed monitoring function (e.g.knot, yarn breakage)
Stop: Piece counter to 0	Stop motion when the piece counter is set to **0**
Stop: Stop resistance	Stop motion through the stop resistance
Stop: Position needle sensor	Stop motion by position needle sensor
Stop: Fabric take-down	Stop motion through monitoring of the fabric take-down
Stop: Program	Stop motion through a programme command
Stop: Other	Stop motion by other events
Stop: Shock stop	Stop motion through the shock stop motion
Stop: Racking error	Stop motion through an error during racking of the needle bed
Booting CMS	Machine when booting
CMS switched off	Machine switched off
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.

Unusual features in the display columns

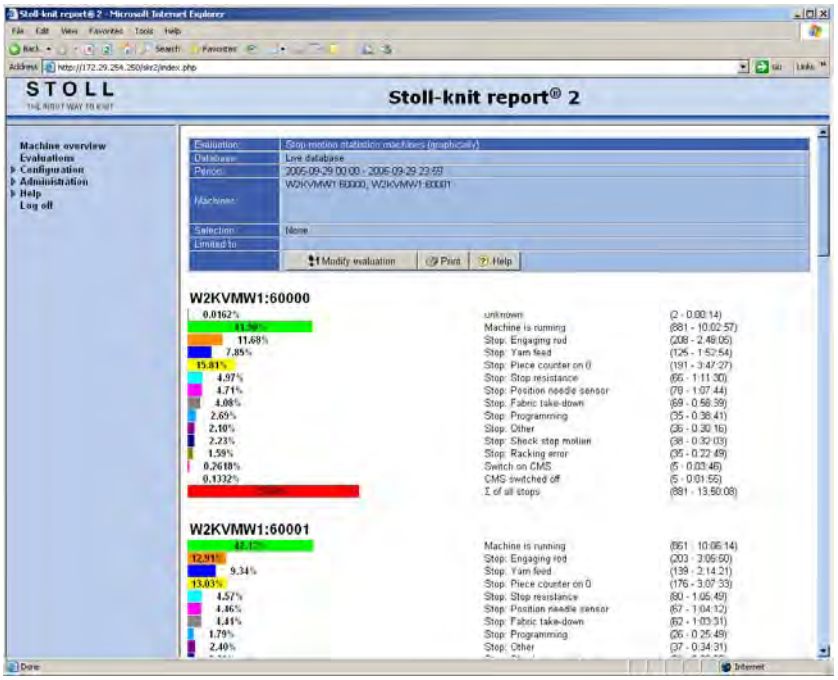
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

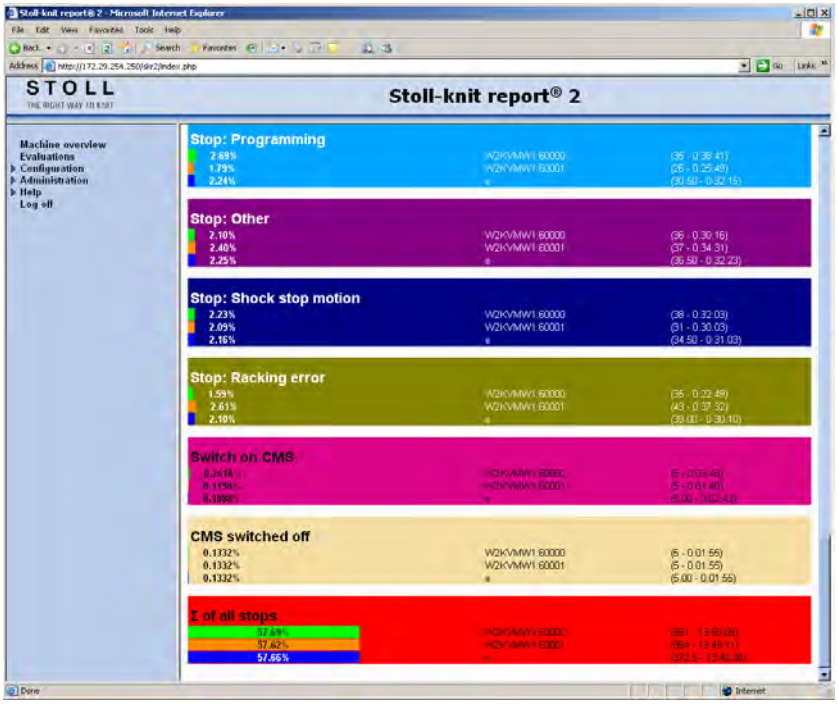
Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.9 Stop motion statistics machines (graphically)

The "Stop motion statistics of machines (graphically)" evaluation operation shows the duration of the stop motions that have occurred graphically. The display depends on the parameter and filter selection.



"Evaluations" menu with the graphics display of the stop motions (upper menu area)



"Evaluations" menu with the graphics display of the stop motions (lower menu area)

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Graphics display

The graphics display is divided into two areas:

- Listing of the production and production interruption times, separated by machines
- Listing of the production and production interruption times of each machine, separated by causes

Times separated by machines

The production times and the individual causes of a production interruption (stop motion) are displayed by bars in different colors for each machine.

The number of production times and production interruptions as well as their overall duration are indicated graphically, absolutely and as a percentage (related to the evaluation period).

Times separated by causes

The unknown interruptions (stops) of the production times of the individual machines are displayed in the **Unknown** field (dark green).

The production times of the machines are displayed in the **Machine running** field (bright green).

A further field with a specific colored background is displayed for each cause of a production interruption (stop motion). Within such a field the individual machines whose data were used for evaluation are listed. The overall duration of the production interruption is indicated graphically, absolutely and as a percentage for each machine.

The sum of the stop motions, separated by machines, is displayed in the **Σ of all stops** (red).

Colors

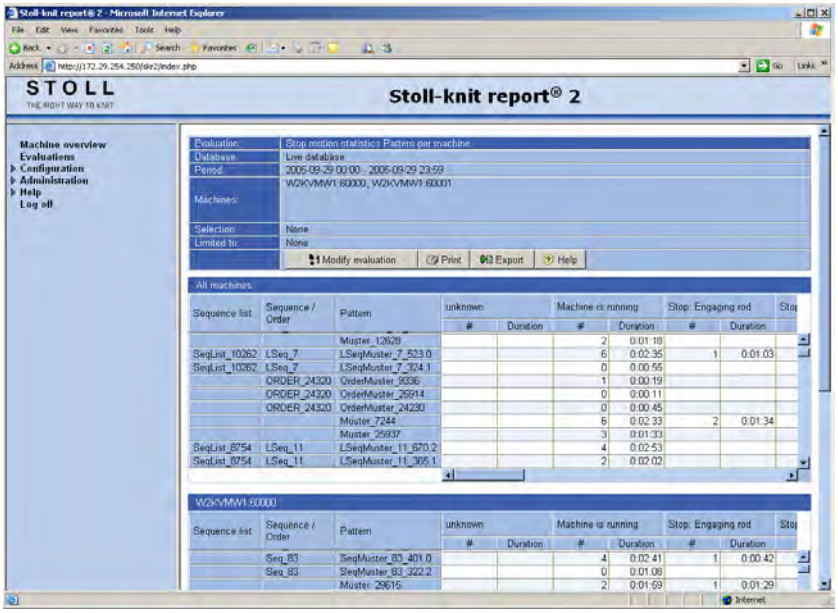
Color		Explanation
	Dark green	Cause of the stop motion unknown
	Bright green	Machine running
	Orange	Stop: Engaging rod
	Blue	Stop: Yarn feed
	yellow	Stop: Piece counter to 0
	Cyan	Stop: Stop resistance
	Magenta	Stop: Position needle sensor
	Grey	Stop: Fabric take-down
	Bright blue	Stop: Program
	Purple	Stop: Other
	Dark blue	Stop: Shock stop
	Olive	Stop: Racking error
	Pink	Booting CMS
	Sand-colored	CMS switched off
	red	∑ of all stops

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The data can be printed out or saved.
	Calls up the help page for this evaluation.

5.3.10 Stop motion statistics Pattern per machine

The "Stop motion statistics Pattern per machine" evaluation operation displays the stop motion statistics of all stop motions that have occurred, depending on knitted pattern and separated by machines. The display depends on the parameter and filter selection.



Menu "Evaluations" with the stop motion statistics of all stop motions that have occurred, depending on knitted pattern and separated by machines

Headers The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

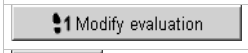
Column headers The values of all the machine that are used for evaluation are displayed in the first table. The values separated by machines are displayed in the further tables.

Name	Explanation
Sequence list	Name of the sequence list
Sequence / Order	Name of the sequence or of the order
Pattern	Name of the pattern
#	Number of stop motions
Duration	Total duration of stop motions
Machine running	Production time of the machine
∑ of all stops	Sum of all stop motions
unknown	Unknown stop motion
Stop: Engaging rod	Stop motion through activation of the engaging rod
Stop: Yarn feed	Stop motion through the yarn feed monitoring function (e.g.knot, yarn breakage)
Stop: Piece counter to 0	Stop motion when the piece counter is set to **0**
Stop: Stop resistance	Stop motion through the stop resistance
Stop: Position needle sensor	Stop motion by position needle sensor
Stop: Fabric take-down	Stop motion through monitoring of the fabric take-down
Stop: Program	Stop motion through a programme command
Stop: Other	Stop motion by other events
Stop: Shock stop	Stop motion through the shock stop motion
Stop: Racking error	Stop motion through an error during racking of the needle bed
Booting CMS	Machine when booting
CMS switched off	Machine switched off
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.

Unusual features in the display columns

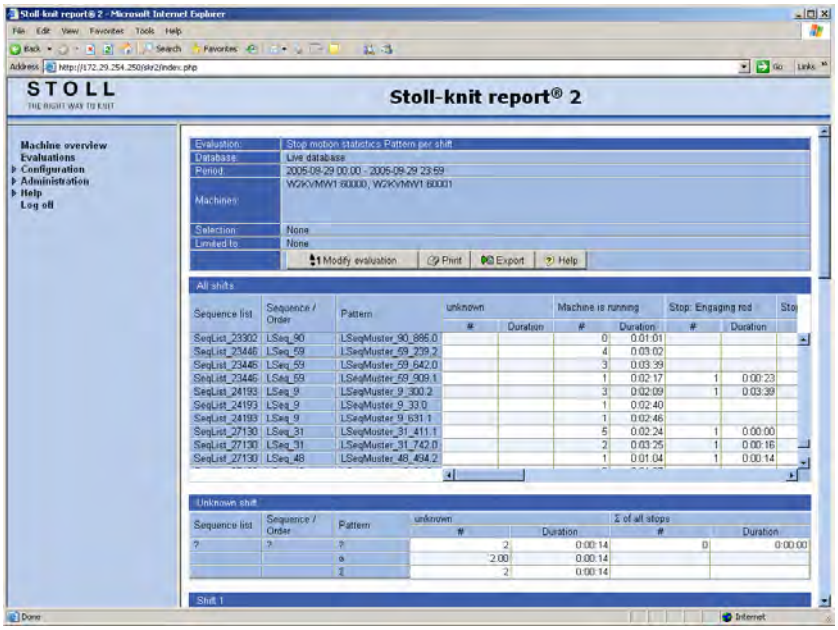
Display	Explanation
...	Column width is insufficient for the display of the text.
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.11 Stop motion statistics Pattern per shift

The "Stop motion statistics Pattern per shift" evaluation operation displays the stop motion statistics of all stop motions that have occurred, depending on knitted pattern and separated by shifts. The display depends on the parameter and filter selection.



Menu "Evaluations" with the stop motion statistics of all stop motions that have occurred, depending on knitted pattern and separated by shifts

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

The values of all the shifts that are used for evaluation are displayed in the first table. The values separated by shifts are displayed in the further tables.

Name	Explanation
Sequence list	Name of the sequence list
Sequence / Order	Name of the sequence or of the order
Pattern	Name of the pattern
#	Number of events
Duration	Duration of the corresponding event
Machine running	Production time of the machine
∑ of all stops	Sum of all stop motions
unknown	Unknown stop motion
Stop: Engaging rod	Stop motion through activation of the engaging rod
Stop: Yarn feed	Stop motion through the yarn feed monitoring function (e.g.knot, yarn breakage)
Stop: Piece counter to 0	Stop motion when the piece counter is set to **0**
Stop: Stop resistance	Stop motion through the stop resistance
Stop: Position needle sensor	Stop motion by position needle sensor
Stop: Fabric take-down	Stop motion through monitoring of the fabric take-down
Stop: Program	Stop motion through a programme command
Stop: Other	Stop motion by other events
Stop: Shock stop	Stop motion through the shock stop motion
Stop: Racking error	Stop motion through an error during racking of the needle bed
Booting CMS	Machine when booting
CMS switched off	Machine switched off
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.

Unusual features in the display columns

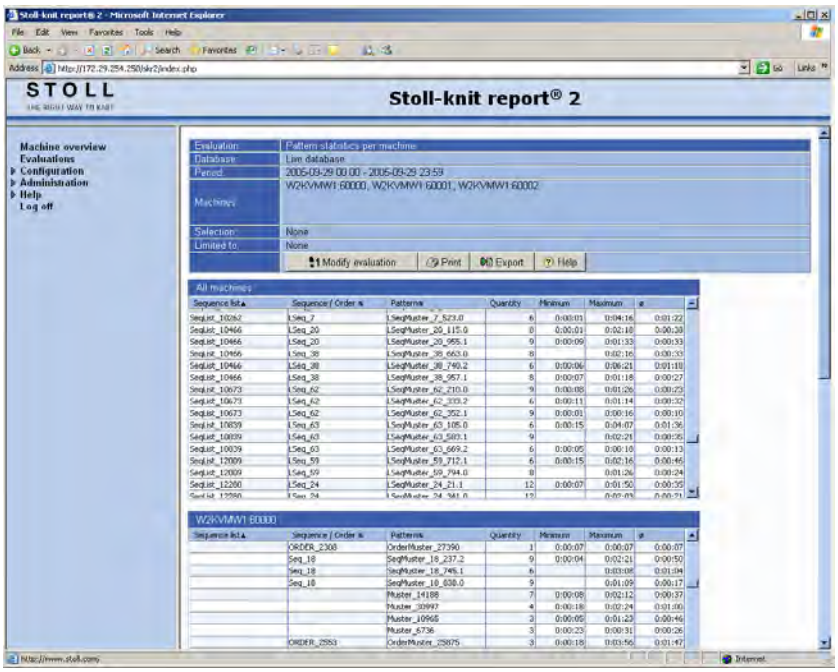
Display	Explanation
...	Column width is insufficient for the display of the text.
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
Modify evaluation	Returns to the parameter and filter setting.
Print	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
Export	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
Help	Calls up the help page for this evaluation.

5.3.12 Pattern statistics per machine

The "Pattern statistics per machine" evaluation operation displays the number of fabric pieces and their run-through times, separated by machines. The display depends on the parameter and filter selection.



"Evaluations" menu with the number of fabric pieces and their run-through times, separated by machines

Headers The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers The values of all the machine that are used for evaluation are displayed in the first table. The values separated by machines are displayed in the further tables.

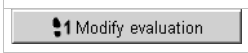
Name	Explanation
Sequence list	Name of the sequence list
Sequence / Order	Name of the sequence or of the order
Pattern	Name of the pattern
Number	Number of fabric pieces
Minimum	Minimum knitting time for a fabric
Maximum	Maximum knitting time for a fabric
š	Average time for a fabric

The sort sequence can be modified by clicking the column header which is provided with the character  . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

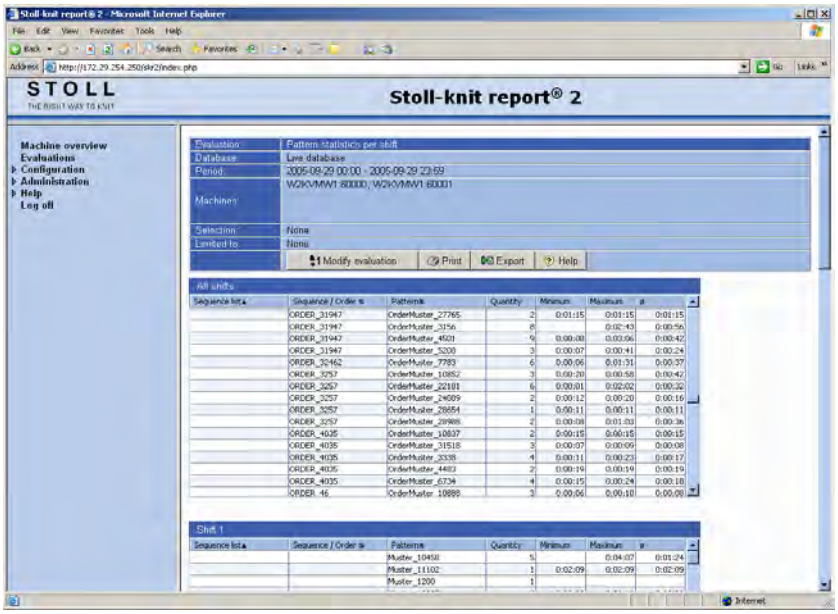
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.13 Pattern statistics per shift

The "Pattern statistics per shift" evaluation operation displays the number of fabrics and their run-through times, separated by shifts. The display depends on the parameter and filter selection.



"Evaluations" menu with the number of fabrics and their run-through times, separated by shifts

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

The values of all the shifts that are used for evaluation are displayed in the first table. The values separated by the individual shifts are displayed in the further tables.

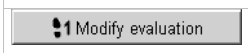
Name	Explanation
Sequence list	Name of the sequence list
Sequence / Order	Name of the sequence or of the order
Pattern	Name of the pattern
Number	Number of fabric pieces
Minimum	Minimum knitting time for a fabric
Maximum	Maximum knitting time for a fabric
Ø	Average time for a fabric

The sort sequence can be modified by clicking the column header which is provided with the character  . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

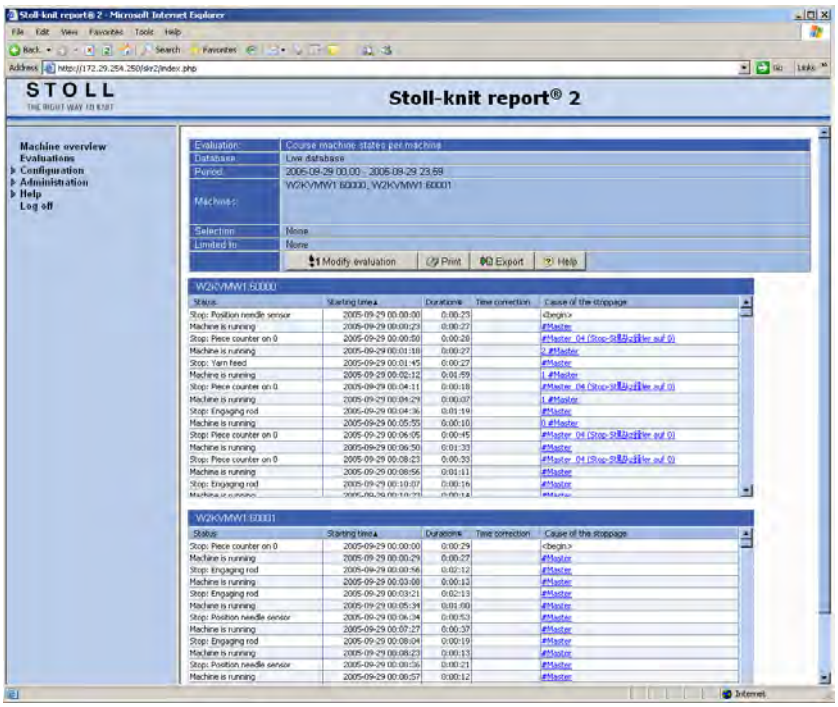
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.14 Course machine states per machine

The evaluation operation "Course of machine states per machine" lists the individual machine states in the sequence of their chronological occurrence, separated by machines. The display depends on the parameter and filter selection.



"Evaluations" menu with the chronological course of the machine states, separated by machines

Headers The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

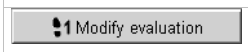
Name	Explanation
State	Current machine state
Starting time	Beginning of the machine state
Duration	Duration of the machine state
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.
Cause of the stop motion	Explanatory text for the event. This text can also be configured as a link. When this link is clicked, a further browser window is opened in which a detailed message is displayed.

The sort sequence can be modified by clicking the column header which is provided with the character  . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

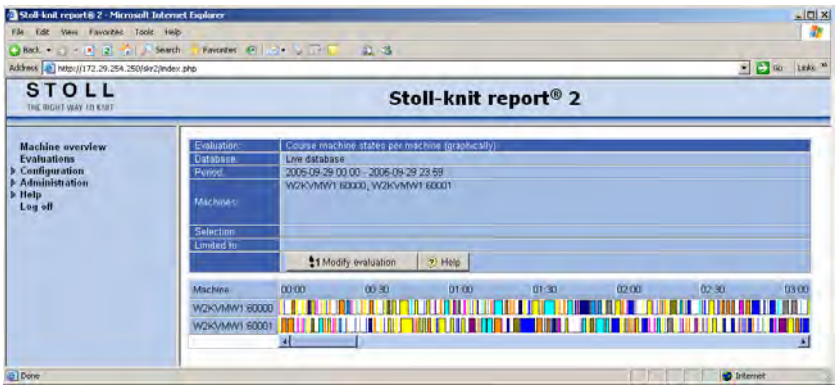
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.15 Course machine states per machine (graphically)

The evaluation operation "Course of machine states per machine (graphically)" shows the states of the individual machines in graphics form. The display depends on the parameter and filter selection.



"Evaluations" menu with the graphics display of the chronological course of the machine states

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

Name	Explanation
Machine	Machine name
00:00 to 23:00	Time scale

Used command buttons

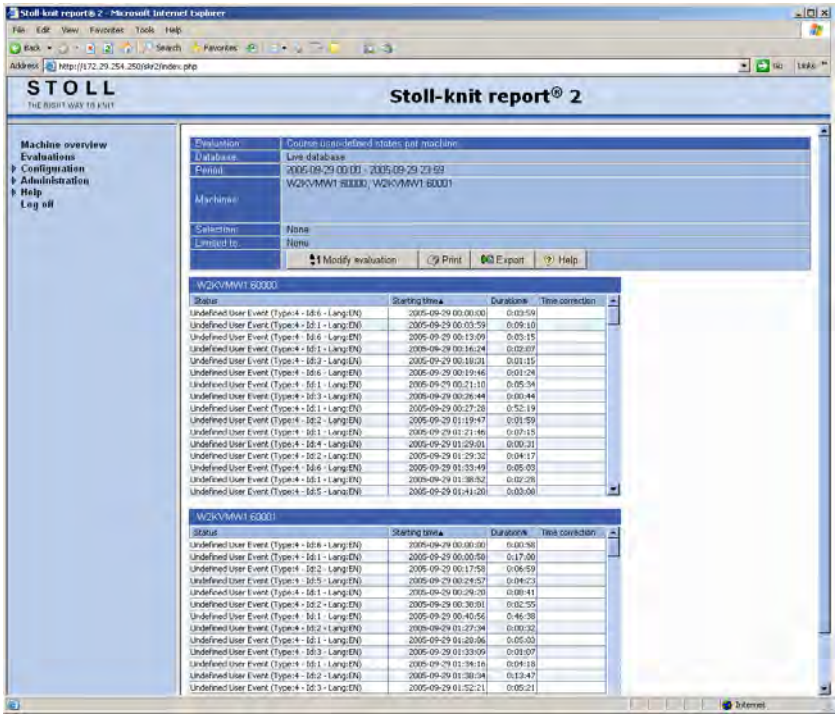
Button	Explanation
Modify evaluation	Returns to the parameter and filter setting.
Help	Calls up the help page for this evaluation.

Colors

Color		Explanation
	Dark green	Cause of the stop motion unknown
	Bright green	Machine in production
	Orange	Stop: Engaging rod
	Blue	Stop: Yarn feed
	yellow	Stop: Piece counter to 0
	Cyan	Stop: Stop resistance
	Magenta	Stop: Position needle sensor
	Grey	Stop: Fabric take-down
	Bright blue	Stop: Program
	Purple	Stop: Other
	Dark blue	Stop: Shock stop
	Olive	Stop: Racking error
	Pink	Machine when booting
	Sand-colored	Machine switched off
	White	No evaluation

5.3.16 Course user-defined states per machine

The evaluation operation "Course of user-defined states per machine" shows the events that were triggered by the user on the machine, separated by machines. The display depends on the parameter and filter selection.



"Evaluations" menu with the chronological course of user-defined states, separated by machines

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

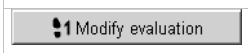
Name	Explanation
State	Display of the state which has been triggered by the user
Starting time	Beginning of the event
Duration	Duration of the event
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.

The sort sequence can be modified by clicking the column header which is provided with the character  . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

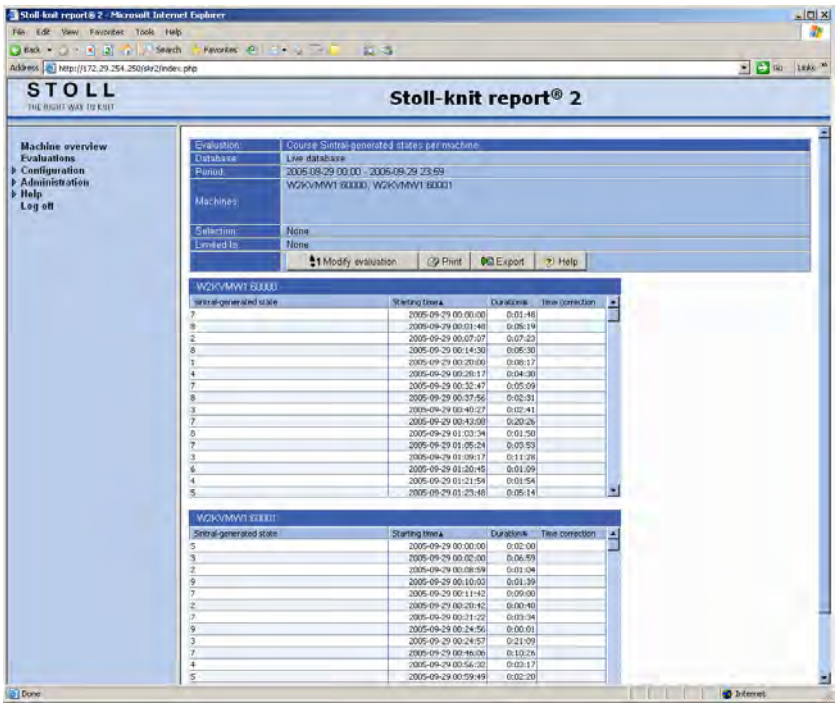
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.17 Course Sintral-generated states per machine

The evaluation operation "Course of Sintral-generated states per machine" shows the events that were triggered by a Sintral program on the machine, separated by machines. The display depends on the parameter and filter selection.



"Evaluations" menu with the chronological course of Sintral-generated states, separated by machines

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

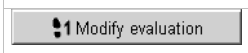
Name	Explanation
Sintral-generated state	Display of the state which has been triggered by the Sintral program
Starting time	Beginning of the event
Duration	Duration of the event
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.

The sort sequence can be modified by clicking the column header which is provided with the character  . In addition to the column header, the character ▲ or ▼ is then displayed additionally. If you click the column header again, the sorting sequence is reversed.

Unusual features in the display columns

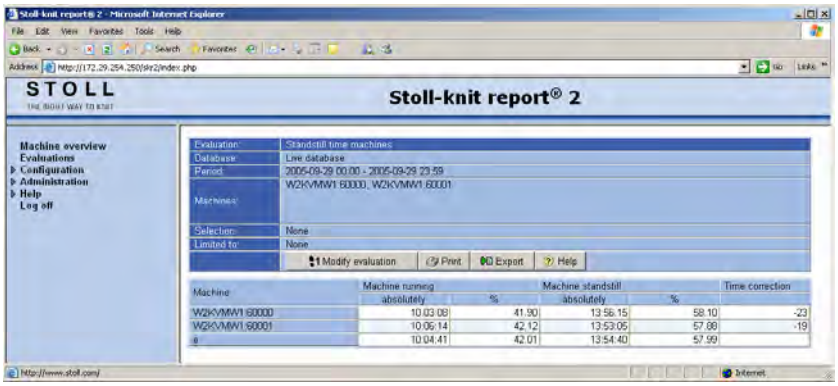
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.18 Standstill time machines

The evaluation operation "Standstill time machines" lists the production and standstill times of the individual machines. The display depends on the parameter and filter selection.



"Evaluations" menu with the list of production and standstill times of the machines

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

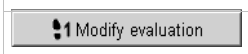
Column headers

Name	Explanation
Machine	Machine name Ø: Value of all machines
Machine running	Production time (absolute and as a percentage related to the evaluation period)
Machine standstill	Standstill time (absolute and as a percentage related to the evaluation period)
unknown	Unknown stop motion
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.

Unusual features in the display columns

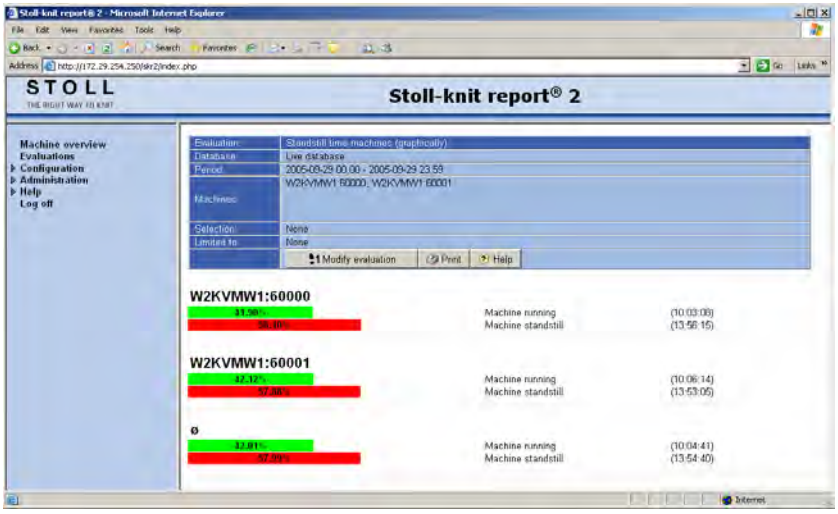
Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.3.19 Standstill times machines (graphically)

The evaluation operation "Standstill times machines (graphically)" shows the production and standstill times of the machines graphically. The display depends on the parameter and filter selection.



"Evaluations" menu with the graphics display of the production and standstill times of the machines

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Graphics display

The production and standstill times are indicated by bars for each machine:

Color		Explanation
	Green bar	Machine running
	Red bar	Machine standstill

In addition the data are displayed as decimal values (absolute and as a percentage)

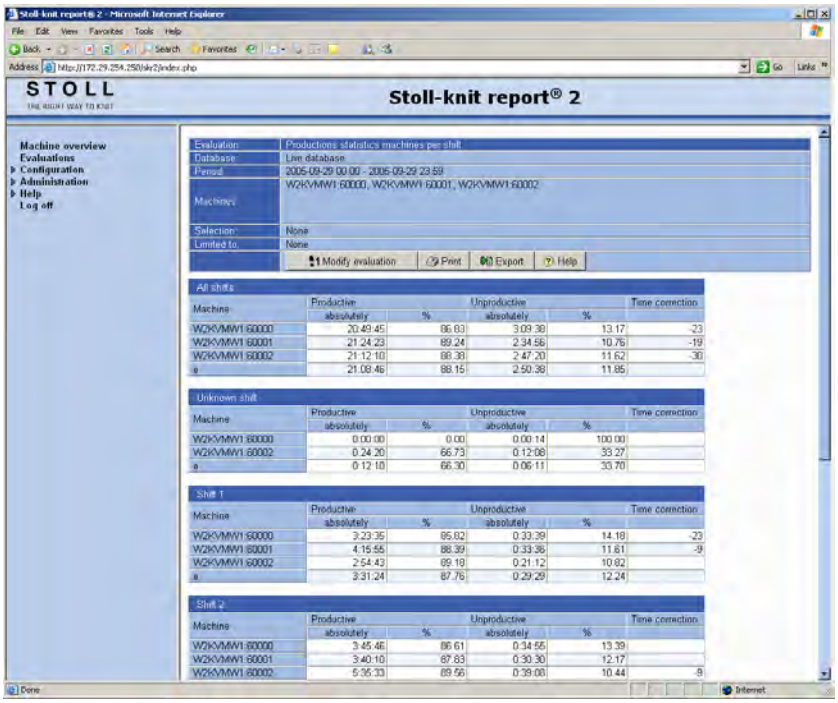
> The average of all the machines is displayed under Machine ø.

Used command buttons

Button	Explanation
Modify evaluation	Returns to the parameter and filter setting.
Print	Converts the displayed data into PDF format and displays them. The data can be printed out or saved.
Help	Calls up the help page for this evaluation.

5.3.20 Production statistics per shift

The "Productivity statistics shifts" evaluation operation lists the productivity times of the machines, separated by shifts. The display depends on the parameter and filter selection.



"Evaluations" menu with the list of the productivity times of the machines, separated by shifts

Headers

The headers contain the following entries:

Name	Explanation
Evaluation	Evaluation name.
Database	Evaluated database.
Period of time	Evaluation period.
Machines	Name of the machines whose events are evaluated.
Selection	Evaluation parameters and filters.
Limit to	

Column headers

The values of all the shifts that are used for evaluation are displayed in the first table. The values separated by the individual shifts are displayed in the further tables.

Name	Explanation
Machine	Machine name Ø: Average value
Productive	Production time (absolute and as a percentage)
Unproductive	Standstill time (absolute and as a percentage)
Time correction	+X: The time of the machine was set forwards by X seconds in the monitoring period. -X: The time of the machine was set backwards by X seconds in the monitoring period.

Unusual features in the display columns

Display	Explanation
?	No value could be determined or the value is invalid.
-1	No value could be determined.
unknown	No defined value could be determined.

Used command buttons

Button	Explanation
	Returns to the parameter and filter setting.
	Converts the displayed data into PDF format and displays them. The file can be printed out or saved.
	Opens the Windows programme **Notepad.exe**. The evaluation data are displayed in this text editor. The semicolon is used as as the separator between the individual records (CSV format). The file can now be stored as a text file (extension: *.txt) by using **File/Save As**. This file can be imported into a spreadsheet programme and edited further.
	Calls up the help page for this evaluation.

5.4 Configuration

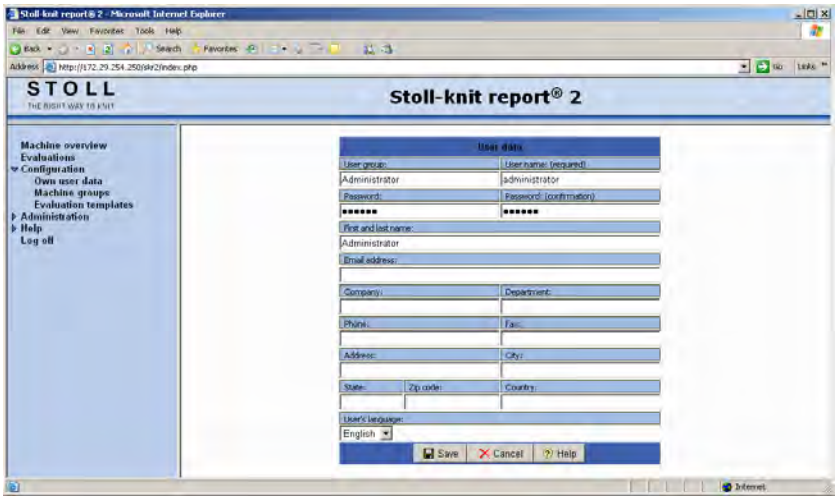
This section contains information about the configuration of the Stoll-knit report® 2:

For this, see also...

- Own user data [▶ 104]
- Defining machine groups [▶ 105]

5.4.1 Own user data

In this menu the user can change his or her data and password.



"User data" menu

Entering/changing the user data:

1. Click the input field that is to be filled out or changed.
2. Fill out or change the fields.
3. Click the "Save" command button.

Changing the password:

1. Click the "Password" input field.
2. Enter the new password.
3. Click the "Password (Confirm)" input field.
4. Confirm the new password.
5. Click the "Save" command button.

Selecting the language:

1. Select a language in the "Language of user" list field.
2. Click the "Save" command button.

5.4.2 Defining machine groups

All the registered machines can be combined into groups. Existing groups can be changed at any time.

All the machines registered for the evaluation are listed in the "Machines" area.

➜ Select the "Configuration/Machine groups" menu in the start window.

"Machine groups" menu

Creating a first machine group:

1. Click in the "New group" input field.
2. Enter name of new group.
3. Activate the check boxes before the names of the machines that are to be included in the group.
4. Click the "Save" command button.

⇨ The new group is displayed in the "Machine group" list field.
The command buttons "New" and "Delete" are displayed.

Creating another machine group:

1. Click the "New" command button.
2. Enter the name of the new group in the "New group" input field.
3. Activate the check boxes before the names of the machines that are to be included in the group.
4. Click the "Save" command button.

⇨ The new group is displayed in the "Machine group" list field.

Deleting machine group:

1. Select the machine group in the "Machine group" list field.
2. Click on the "Delete" button.

⇨ The selected machine group is deleted.

Changing the machine group:

1. Select the machine group in the "Machine group" list field.
2. Activate the check box before the name of the machine that is to be included in the group.

   - or -

➜ Deactivate the check box before the name of the machine that is to be removed from the group.

3. Click the "Save" command button.

5.5 Administration

Settings for the evaluation (web client) are carried out and user data administered here. These tasks should only be carried out by the administrator.

For this, see also...

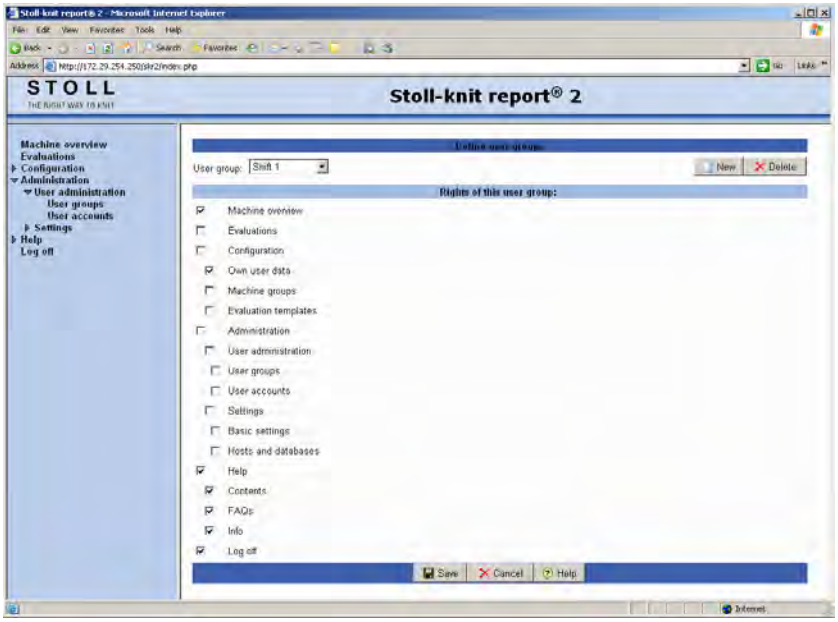
- User administration [▶ 108]
- Adjustments [▶ 113]

5.5.1 User administration

5.5.1.1 User groups

The users who are allowed to operate the Stoll-knit report® 2 software are administered in this menu.

> **i** Changes in this menu can only be carried out by the administrator.



"User groups" menu

User groups can be created or deleted in the "Define user groups" area.

The rights of the individual user groups can be specified in the "Rights of this user group" area.

> **i** The **Administrator** and **Standard user** user groups are default groups and can neither be deleted nor changed.

Defining a user group:

1. Click the "New" command button.
2. Enter a meaningful name for the new user group in the "New group" field.
3. Activate the corresponding check boxes for the menus that are to be accessible for the user group in the "Rights of this user group" area.
4. Click the "Save" command button.

⇨ The new user group is now displayed in the "User group" list field.
The command button "Delete" is visible.

Deleting a user group:

1. Select a user group in the "User group" field.

2. Click on the "Delete" button.

⇨ The user group is now deleted from the "User group" list field.

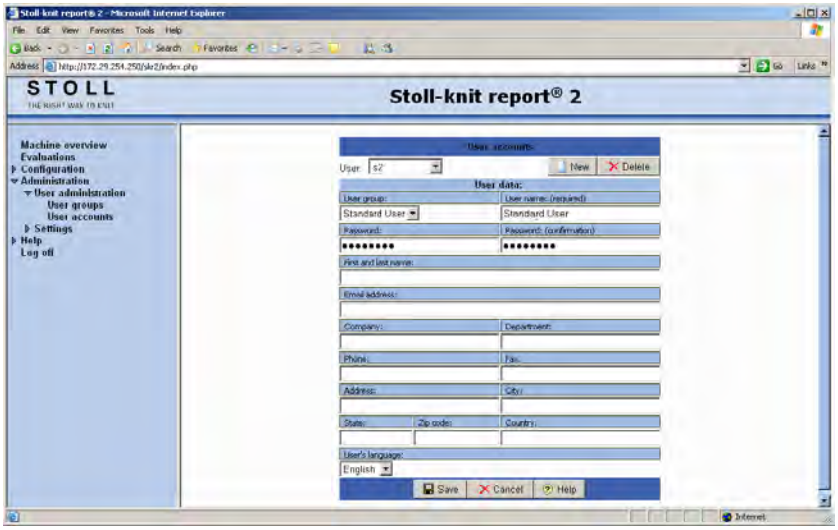
Changing the rights of the user groups:

1. Select the user group in the "User group" list field.
2. Activate the check boxes before the menus that are to be accessible for the user group in the "Rights of this user group" area.
3. De-activate the check boxes before those menus that should not be accessible for the user groups.
4. Click the "Save" command button.

5.5.1.2 User accounts

The user accounts and the passwords of the individual users are administered here.

> Changes in this menu can only be carried out by the administrator.



"User accounts" menu

Entering data for a new user account:

1. Click the "New" command button.
2. Select the user group in the "User group" field.
3. Click the input field that is to be filled out.
4. Fill out the fields ("User name" and "Password" are compulsory fields).
5. Click the "Save" command button.

> User groups are created in the "Administration/User administration/User groups" menu.

Deleting the data of a user account:

1. Select the user account in the "User" field.
2. Click on the "Delete" button.
3. Confirm the prompt.

> The user accounts of the administrator and of the standard user cannot be deleted.

Changing the data for a user account:

1. Select the user account in the "User" field.

⇨ The group to which the user account belongs is displayed in the user group field.

2. If desired, change the user group in the "User group" field.
3. Click the input field that is to be changed.
4. Change the fields.
5. Click the "Save" command button.

Changing the password of a user:

1. Select the user account in the "User" field.
2. Click the "Password" input field.
3. Enter the new password.
4. Click the "Password (Confirm)" input field.
5. Confirm the new password.
6. Click the "Save" command button.

Selecting the language:

1. Select a language in the "Language of user" list field.
2. Click the "Save" command button.

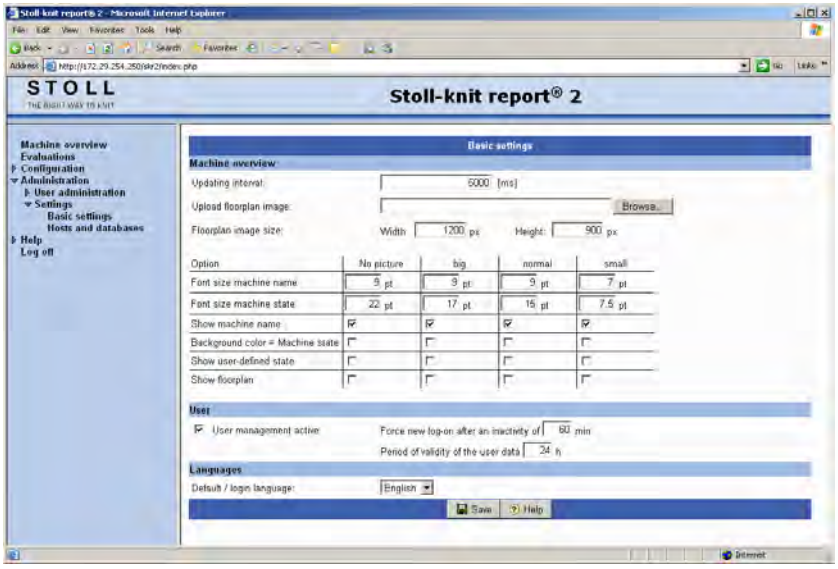
For this, see also...

User groups [▶ 109]

5.5.2 Adjustments

5.5.2.1 Basic settings

The basic settings for the Stoll-knit report® 2 software are carried out here.



Call up the "Basic settings" menu

Setting	Explanation
Updating interval	Basic setting 5000 ms Advisable range of values: 500 ms to 8000 ms Note: Do not select a value that is too low because otherwise the Stoll-knit report® 2 software will constantly be busy updating.
Upload floorplan image	Opens the Windows standard dialog box for loading a file (JPG format).
Floorplan image size	Width and height of the layout in pixels.
Font size machine name	Font size of the machine name for the various resolutions (no images ... small) in the "Machine overview" menu.
Font size machine state	Font size of the machine state for the various resolutions (no images ... small) in the "Machine overview" menu.
Show machine name	Display of the machine name in the "Machine overview" menu.
Background color = Machine state	Background color for the machine symbols in the "Machine overview" menu. The background color of the symbol corresponds to the color of the machine state.
Show user-defined state	The states defined by the user are displayed in the "Machine overview" menu in addition to the machine states.
Show floorplan	A background image is displayed in the "Machine overview" menu.
User management active	If the check box is deactivated, the user can call up the Stoll-knit report® 2 software without logging on. However, not all the menus can be accessed then.
Force new log-on...	After the period specified here the user is forced to log on again if he has not used the software during this period. Basic setting: 60 min Value range: 1 to 99 999 min
Period of validity of the user data	The user data (session data) are stored temporarily for this period. The data are deleted after this period has expired. Basic setting: 24 hours Value range: 1 to 99 999 hours
Default / login language	Selection of the default language: German, English, Chinese
"Save" command button	Saves the settings.

Possible settings

The settings do not become active until you have clicked the "Save" command button.

Showing the floor plan:

1. Activate the "Show floor plan" checkbox.
2. Click the "Browse" command button.

▷ The Windows standard dialog box for loading a file is opened.

3. Select a file with a background image (e. g. building layout) (JPG format).
4. Enter the dimensions of the background image in the "Width" and "Height" fields (in pixels).

5. Click the "Save" command button.

⇨ The background image is displayed in the "Machine overview" menu.

i	If the layout size is not specified, distortions can arise in the display in the "Machine overview" menu.

Select font size for "Machine name" and/or "Machine State":

1. Font size for the corresponding resolution (no images/large/normal/small).
2. Click the "Save" command button.

Selecting further options.

1. Activate the check box whose option you want to select.

▷ The check box has a check mark in it.

2. Click the "Save" command button.

Starting the evaluation without a password having to be entered when logging in:

1. Deactivate the check box in front of "User management active" in the "User" area.
2. Click the "Save" command button.

⇨ The evaluation is started without logging in when the Stoll-knit report® 2 is called up the next time. The menu "Administration" is only accessible via a password.

Reactivate the "User management active":

▷ An user has called up the Stoll-knit report® 2 software without logging in.

1. Click the "Administration" menu entry.

▷ The login screen is opened.

2. Enter the corresponding user name and password:

▷ The Administration menu can be accessed again.

3. Click "Administration/Settings/Basic settings".
4. Activate the check box in front of "User management active" in the "User" area.
5. Enter the period after which the user is forced to log on again if he has not been active during this period.
6. Enter the period after which the user data are to be deleted.
7. Click the "Save" command button.

⇨ When the Stoll-knit report® 2 software is called up the next time, the user name and password have to be entered again during the login.

Select the default and login language

1. Select the desired language in the "Default / login language" list field.

2. Click the "Save" command button.

5.5.2.2 Hosts and databases

Here you can change the IP addresses of the hosts and databases.

"Configure hosts and databases" menu

Host or DB	Explanation
Primary Live database	IP address including port selection, name of the data source as well as user and access password of the primary live database.
Primary Archive database	IP address including port selection, name of the data source as well as user and access password of the primary archive database.
Secondary Report database	IP address including port selection, name of the data source as well as user and access password of the report database.
Web application database	IP address including port selection, name of the data source as well as user and access password of the database for web application.

These settings may only be modified by the system administrator.

5.6 Help

The Stoll-knit report® 2 software includes an online help on HTML basis.

Calling up the online help:

➜ Click "Help" in the menu tree and then click "Contents".

▶ The online help with the table of contents is opened.

- or -

➜ If you require help on the displayed menu, click the "Help" command button.

▶ The online help with the help page for the displayed menu is opened.

	The "Prompts and answers" entry connects you directly to the FAQ pages of Stoll (password required).
	The "Info" entry displays important information about the Stoll-knit report® 2 software.
	Many images in the online help are displayed in reduced size (as thumbnails). Click the image in order to display it is the original size.

The following symbols are contained in the headers or footnotes of a help page:

	Function	Destination
	Start page.	Change to the start page.
	Previous topic	Return to the previous subject. The title of the previous subject appears in the tip text.
	Next topic	Continue to the next subject. The title of the next subject appears in the tip text.
	Higher-level topic	Switch to higher-level subject. The title of the higher-level subject appears in the tip text.
	Backw.	Switching to the last displayed page. i: Only available when you have already jumped to another page.
http://support.stoll.com		Call up Stoll customer homepage. Here you will find everything worth knowing about the M1plus and CMS knitting machines. With your customer number and your PIN you will find not only FAQs and Tips and Tricks, but also a large number of download functions in the customer-net.

The following symbols are contained on a help page:

	Information	Meaning
	Note	Notes to be observed during your procedure are located to the right next to this icon.
▷	Requirements	You will find the requirements for executing the following procedural instructions to the right of this symbol.
⇨	Result	On the right of this symbol there is the result of an action or a series of actions which has been described previously.
	Tip	Tips for a simpler or better procedure are located to the right of this icon.

5.7 Log off

Quit the Stoll-knit report® 2 software:

1. Click the Log off entry.

⇨ The evaluation by the software Stoll-knit report® 2 is terminated. The log-on window is displayed.

2. Close the browser window.

- or -

➜ Log on again.

6 Administrator tasks

This section contains the following information:

For this, see also...

- Information about administration [▶ 124]
- Administering the SKR2 central unit of the Stoll-knit report® 2 software [▶ 131]

6.1 Information about administration

This section contains important information about administration:

For this, see also...

- Identification of the knitting machines in the network [▶ 125]
- Temporary storage function of the knitting machines [▶ 128]
- Required storage space on the hard disk [▶ 129]
- Synchronization of the clocks on the knitting machine [▶ 130]

6.1.1 Identification of the knitting machines in the network

In the network each knitting machine has an IP address that is set on the knitting machine. This IP address may only be assigned once in the network. Since this differentiation alone is not sufficient to keep the live database consistent, the Stoll-knit report® 2 software uses a definite machine identification - the machine GUID (Global Unique ID). The Stoll-knit report® 2 software recognizes a machine on the basis of these machines GUID - even if the IP address on the machine has been changed.

If a machine has been included in the machine list by means of the **Machine management** administrator programme, the definite machine identification is displayed in the "Machine administration" window in the "Definite machine identification" column.

Each SKR2 central unit also has a unique identification - the SKR-2-GUID. When a machine has been included in an SKR2 combination, the SKR2-GUID is stored on the machine. This allows a further SKR2 combination to determine whether a machine should be included that is already logged on at another SKR2 combination.

The following situations may arise (examples):

- The IP address is changed on a machine, for example because the machine was set up in a different production room.

Consequence:	The machine is no longer found in the network. The data are stored temporarily on the machine for approx. four operating days.
Actions:	Correct the IP address for this machine within these four days by using the **Machine management** programme ("Machine - administration" window).
Effect:	After the correction the machine data that were stored temporarily are called up by the SKR2 central unit. The data in the live database remain consistent.

- The IP address is exchanged between two machines.

Consequence:	The SKR2 central unit displays an error message because the software recognizes that two IP addresses have been exchanged. The data are stored temporarily on the machines for approx. four operating days.
Actions:	Correct the IP addresses for these machines within these four days by using the **Machine management programme** ("Machine - administration" window).
Effect:	After the correction the machine data that were stored temporarily are called up correctly by the SKR2 central unit. The data in the live database remain consistent.

- The computer on which the Stoll-knit report® 2 software is installed, fails for a certain time, for example due to a defective power supply unit or unintentional switching off.

Consequence:	The data are stored temporarily on the knitting machine for approx. four operating days. When the computer on which the Stoll-knit report® 2 software is installed functions again, then the machine data that were stored temporarily are called up by the SKR2 central unit.
Actions:	Repair within four operating days.
Effect:	The data in the database may be corrupt for a certain period before the failure.

- A machine was defective and has been repaired. During the repair the computer (IPC) and/or the hard disk has been replaced. The dongle data for the machine have finally been copied back.

Consequence:	The machine is recognized correctly after the repair.
Effect:	The data in the database may be corrupt for a certain period before the failure.

- A machine was defective and has been repaired. During the repair the computer (IPC) and/or the hard disk has been replaced. The dongle data have changed

Consequence:	The SKR2 central unit displays an error message because the machine GUID for this machine has changed.
Actions:	Edit the IP address and activate the **Transfer unique machine identification again** check box.
Effect:	The data are recorded in the live database until the machine fails. The data may be corrupt if the recording was not interrupted in a defined manner. From the moment where the machine is activated with a new machine GUID, the data are recorded correctly again - however now with the new machine GUID.

- A knitting machine fails. Operating system and machine can be shut down correctly. The machine is repaired and put back into operation.

Effect:	The period between the failure and the repair is missing in the live database or may be corrupt.

- A knitting machine fails without the operating system and the machine being shut down correctly.

Effect:	The period between the failure and the repair is missing in the live database or may be corrupt.

The list of examples cannot be complete because not all the cases can be foreseen. The live database can then always contain gaps or corrupt sections if undefined states occur during operation.

For this, see also...

- Administering machines [▶ 132]

6.1.2 Temporary storage function of the knitting machines

The data for the Stoll-knit report® 2 software can be stored temporarily on the knitting machine for approx. four operating days (or approx. 100 operating hours). After this period the data recording function for the Stoll-knit report® 2 software is set to **Standby mode** on the knitting machine. This means that the machine no longer generates events and the used memory is released again. The data are deleted. However, the machine reacts to a switch-on request from the SKR2 central unit.

6.1.3 Required storage space on the hard disk

It is advisable to use a separate hard disk to store the data in the live database, for example as Drive **D**.

The hard disk should be dimensioned depending on the number of connected machines, number of events and evaluation period. The required space amounts to approx. 1.5 Mbytes per 10,000 events.

	CAUTION
	**Data loss!** If the memory space on the hard disk is insufficient, MYSQL commands cannot be executed. This causes data to be lost and existing data can no longer be evaluated. If the data are stored on the same hard disk on which the operating system is installed, it is possible that Windows can no longer be executed correctly if the memory space is insufficient. ➜ Check the memory space on the hard disk regularly. ➜ Always ensure that at least 30% of the hard disk capacity remains free

If the memory space on the hard disk drops below a certain value, a warning is displayed by Windows in the Systray. At the latest the following actions have to be carried out now in order to avoid a data loss:

1. Archive the live database.
2. Delete archived areas of the live database.

- or -

➜ Make further memory space available.

For this, see also...

Exporting a live database [▶ 139]
Backing up the live database [▶ 142]

6.1.4 Synchronization of the clocks on the knitting machine

The evaluations in the Stoll-knit report® 2 software depend on the exact time.

The clocks of the knitting machines and of the SKR2 central unit must therefore be synchronized.

The following problems occur when the clocks are synchronized:

Problem	Solution
Summer Standard time changeover	During the automatic change-over from summer to standard time the event WM_TIMECHANGE is triggered. Time corrections are specified during the evaluations.
The clocks of knitting machines on which Windows 95 is installed, run imprecisely. Under a high CPU load they stop or run slower.	The Windows clock is reset regularly by clock of the battery card (approx. once per minute).
As the operating time increases, the times of the various components deviate.	When the clock of a knitting machine deviates from the SRK2 central unit by approx. 10 seconds, the knitting machine clock is synchronized with the SKR2 central unit. Greater time corrections are specified at the the evaluations.
Attempt to enter a date (or time) on the knitting machine.	The entry of the date and time on the user interface of the knitting machine is blocked while the Stoll-knit report® 2 software is active.
Mistake entry of an incorrect date (or time) and its correction on the SKR2 central unit.	Example: By mistake the administrator sets the date of the KSKR2 central unit to 7th December, 2011 on 5th December, 2011. The events of the machines are recorded correctly, however with the time stamp of 7th December , 2011. On the following day (December 06) the administrator notices the **incorrect** date and corrects it to December 06 2011. The events of the machines continue to be recorded correctly, with the correct time stamp as from the time correction. However, the database now contains areas that have the same time stamp. Correct evaluation of the data is therefore not possible. **?**, **-1** or **unknown** are displayed at the evaluations.

6.2 Administering the SKR2 central unit of the Stoll-knit report® 2 software

The following programmes are available in order to administer the central unit (SKR2 central unit) of the Stoll-knit report® 2 software:

Program name	Task
Machine administration (Skr2AdminInterface.exe)	Administering the machine list
Data backup (Skr2ArchiveTool.exe)	Back up and restore evaluation data (Archiving or Backup)
User Event Administration (Skr2UserEventTool.exe)	Defining and administering user-defined events
Log File Viewer (ABLogFile.exe)	Displaying log messages

CAUTION

Data loss!
Improper use of the programmes can lead to data loss.

➜ The programmes described in this section may only be carried out by the administrator.

The individual programmes are started in the task bar by using the command "Start\All programs\Stoll-knit report\...".

Information about the individual programs can be found here:

For this, see also...

- Administering machines [▶ 132]
- Backing up and restoring evaluation data [▶ 138]
- Defining and administering user-defined events [▶ 144]
- Displaying log messages [▶ 151]

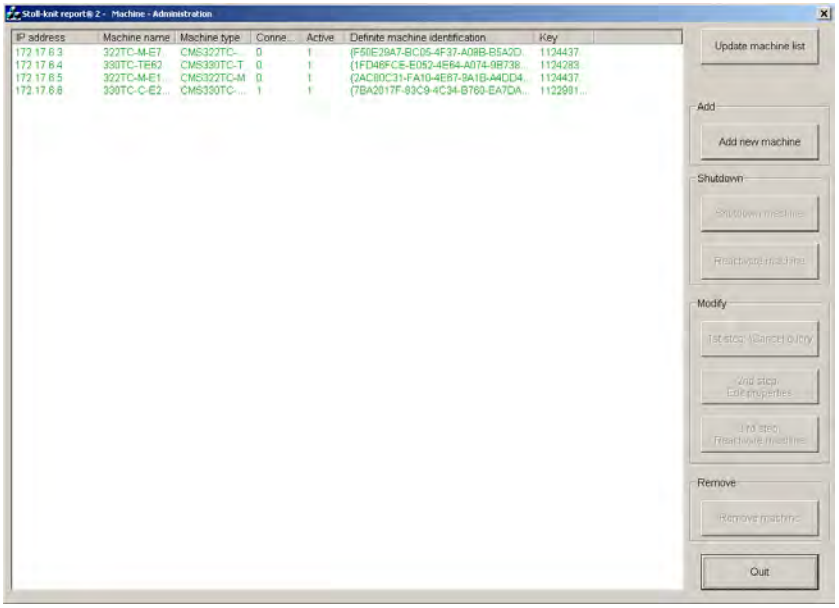
6.2.1 Administering machines

With this administrator programme you administer the machine pool that is used for evaluation in the Stoll-knit report® 2 software.

Calling up the programme:

➜ Click Start / "All Programs" / "Stoll-knit report" the "Machine administration" entry.

▷ The "Machine administration" window appears.



This window lists those machines whose events are to be used for the evaluation in the Stoll-knit report® 2 software.

The display field of the window displays the following information for each included machine:

Column	Meaning
IP-address	IP address of the machine in the network (is set on the machine)
Machine name	Name of the machine
Machine type	Type of machine
Connected	Connection status: 0 = Not connected 1 = Connected
active	Prompt state (SKR state): 0 = Not active 1 = Active
Unique machine identification	Machine identification number for the SKR2 central unit
Key	Database key

Command buttons in the "Machine administration" window:

Button	Function
"Update machine list"	Refresh window contents: In order to maintain speed the "Machine administration" window is only refreshed at specific intervals. This command button allows refreshing of the window to be forced.
"Add new machine"	A new machine is included in the evaluation: An input window in which the IP address of the new machine is entered is opened. After the IP address has been entered, the machine is displayed in the display field.
"Quiesce machine"	Remove a machine temporarily from the evaluation: New events are no longer generated. The events are no longer queried. The connection data of this machine are retained in the database. The machine is identified as inactive. The event data of this machine are retained in the live database.
"Reactivate machine"	An inactive machine is included in the evaluation: New events are generated again. The events are queried again. The machine is identified as active.
"1st step"	Remove a machine temporarily from the evaluation, for example in order to edit the IP address: New events continue to be generated and stored on the machine. However, the events are not queried. The connection data of this machine are retained in the database. The machine is identified as inactive. The event data of this machine are retained in the live database.
"2nd step"	Only possible if the machine is not used actively for evaluation (prompt interrupted). Changing the IP address: A window for changing the IP address is opened.
"3rd step"	Re-include a machine to the evaluation, for example after editing the IP address.
"Remove machine"	Remove a machine permanently from the evaluation: New events are no longer generated. The events are no longer queried. The connection data of this machine are deleted. The machine is deleted from the display field. The event data of the machine are deleted from the live database!
"Exit"	The window is closed.

Meaning of the colors in the display field of the "Machine administration" window.

Color	Meaning
green	The machine is in the active state. Data are queried.
Blue	The machine is in the active state. No data are queried.
Grey	The machine is in the state shut down or the prompt is interrupted.
red	An error has occurred.

6.2.1.1 Adding a new machine

▷ The machine is switched on.

▷ The Stoll-knit report® 2 is activated on the machine.

▷ A network connection exists.

▷ The **Machine administration** programme is started and the "Machine administration" window is displayed.

1. Click the "Add new machine" command button.
   ⇨ The "Add new machine" window is opened.
2. Enter the IP address of the new machine.
3. Confirm input with "OK".
   ⇨ The new machine is displayed in the display field of the "Machine administration" window with its parameters.

6.2.1.2 Deleting a machine from the list

▷ The **Machine administration** programme is started and the "Machine administration" window is displayed.

▷ At least one machine is listed in the display field of the "Machine administration" window and is activated for evaluation.

1. Click the "Remove machine" command button.
2. Confirm the safety prompt with "Yes".

⇨ The machine is removed from the display field of the "Machine administration" window. The events in the database are deleted.

:

Multiple selection to delete several machines is possible.

6.2.1.3 Deactivating/reactivating a machine for the evaluation

A machine can be removed temporarily from the evaluation. After its deactivation no new events are generated and queried. However, the connection data are retained.

:

Multiple selection to deactivate several machines is possible.

Deactivating a machine for the evaluation:

▷ At least one machine is listed in the display field of the "Machine administration" window and is activated for evaluation.

1. Click the machine that is to be deactivated in the display field of the "Machine administration" window.
   ⇨ The machine is marked and the "Deactivate machine" command button is activated.
2. Click the "Deactivate machine" command button.
3. Confirm the safety prompt with "OK".
   ⇨ The machine is now displayed in gray in the list, identifying it as deactivated. A **0** is displayed in the **Connected** and **Active** columns.

Reactivating a machine for the evaluation:

▷ At least one machine is listed in the display field of the "Machine administration" window and is deactivated for evaluation.

1. Click the machine that is to be reactivated in the display field of the "Machine administration" window.
   ⇨ The machine is marked and the "Reactivate machine" command button is activated.
2. Click the "Reactivate machine" command button.
3. Click the "Refresh window contents" command button.
   ⇨ The machine is now displayed in green in the list, identifying it as active. An **1** is displayed in the **Connected** and **Active** columns.

6.2.1.4 Changing the IP address of a machine

It may be necessary to change the IP address of a machine. Since the IP address is of elementary importance for the network connection, the connection has to be interrupted before changing the IP address and then restored. The change must therefore be carried out in three steps:

▷ The IP address on the machine has been changed.

▷ The **Machine administration** programme is started and the "Machine administration" window is displayed.

▷ The machine whose IP address is to be changed is listed in the display field of the "Machine administration" window. The entry is red (error message).

1. Click the machine whose IP address is to be changed in the display field of the "Machine administration" window.

⇨ The machine is marked and the "1st step Interrupt prompt" command button is activated.

2. Click the "1st step Interrupt prompt" command button.
3. Confirm the safety prompt with "Yes".

⇨ The machine is now displayed in gray in the list, indicating that the machine prompt is interrupted.
The "2nd step Editing properties" command button is activated.

4. Click the "2nd step Editing properties" command button.

⇨ A window for editing the IP address is opened.

5. Change the IP address.
6. Confirm with "OK".
7. Click the "3rd step Reactivate machine" command button.
8. Click the "Refresh window contents" command button.

⇨ The machine entry is now displayed in green in the list, identifying it as active. An **1** is displayed in the **Connected** and **Active** columns.

If the IP address was first changed on the machine, its entry is displayed in red in the "Machine administration" window (error message) because this address is unknown to the Stoll-knit report® 2 software.
If the IP address was first changed in the "Machine administration" window, the entry is displayed in red after the activation because the Stoll-knit report® 2 software cannot establish a connection to the machine. The entry is not displayed in green until after the IP address has been modified on the machine and until after the first prompt by the Stoll-knit report® 2 software.

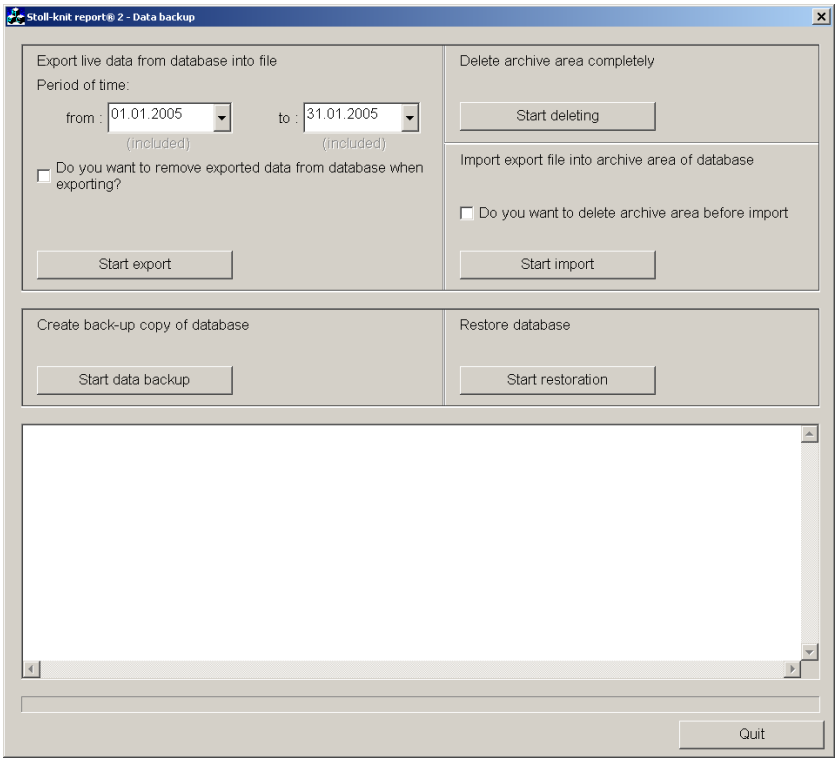
6.2.2 Backing up and restoring evaluation data

With this administrator program you create backup copies and archive files of the live database of the Stoll-knit report® 2 and can restore these if necessary.

Calling up the programme:

➜ Click Start / "All Programs" / "Stoll-knit report" the "Machine administration" entry.

The "Data backup" window is open.



"Data backup" window

You can back up and restore evaluation data in this window.

Button	Explanation
"Start export"	Data for a specific period are exported from the live database into an archive file and stored.
"Start import"	The archived data are imported into the archive database. This archive database can be evaluated.
"Start data backup"	Create a back-up file of the live database.
"Start restoring"	Restore the live database with the backup file. The data existing in the live database are overwritten.
"Exit"	Closes the window.

6.2.2.1 Exporting a live database

The data of a selectable period of the live database are exported in an archive file in Gnu-Zip format.

Exporting data of a specific period:

1. Select the period "from... to...":
   e.g. from: 01.03.2011 to: 31.03.2011
2. Click the "Start export" command button.

⇨ The Windows standard window for saving a file is opened.
archive.gz is suggested as the file name.

3. Select the desired directory.
4. Overwrite archive with a meaningful name (do not overwrite the extension .gz).
5. Confirm input.

⇨ The data are saved under the entered name.

i	The memory required in the target directory is checked before archiving. If the memory is insufficient, a warning is displayed.

Exporting data and at the same time deleting in the live database:

	At this type of export only data from the beginning of the recording until a date that can be selected can be archived, since the database would otherwise be inconsistent.

1. Activate the "Removed exported data during exporting from the database?" check box.

⇨ Only the "to..." field is still displayed.
In addition the "Optimize hard disk memory subsequently?" check box is displayed.

2. Select the "to..." period.
   e.g. to 31.03.2011
3. If the hard disk memory is to be optimised after exporting, activate the "Optimize hard disk memory subsequently?" check box.
4. Click the "Start export" command button.

⇨ After a safety prompt the Windows standard window for saving a file is opened.
archive.gz is suggested as the file name.

5. Select the desired directory.
6. Overwrite archive with a meaningful name (do not overwrite the extension gz).
7. Confirm input.

⇨ The data are saved under the entered name. At the same time these files are overwritten in the live database.

If the "Optimize hard disk memory subsequently?" check box is activated, the hard disk is defragmented subsequently. This can take some time at large hard disks and amount of data.

i	The memory required in the target directory is checked before archiving. If the memory is insufficient, a warning is displayed.

6.2.2.2 Importing an archive into the archive database

▷ The "Backup" window is opened.

▷ An archive in the Gnu-Zip format exists.

1. Click the "Start import" command button.
2. If the archive section on the hard disk is to be deleted before importing, activate the "Delete archive section before importing?" check box.

⇨ The Windows standard window for opening a file is open.

3. Select the archive file (extension *.gz).
4. Confirm selection.

⇨ The data are imported into the archive database:

If the "Delete archive section before importing?" check box is activated, existing data in the archive database are deleted.

If the "Delete archive section before importing?" check box is deactivated and data already exist in the archive database, the imported data are attached.

The archive database can be evaluated with the evaluation software on the web server.

6.2.2.3 Backing up the live database

Backing up the complete data of the live database in a backup file in Gnu-Zip format.

1. Click the "Start data backup" command button.
   ⇨ The Windows standard window for saving a file is opened.
   backup.gz is suggested as the file name.
2. Select the desired directory.
3. Overwrite backup with a meaningful name (do not overwrite the extension .gz).
4. Confirm input.
   ⇨ The data are saved under the entered name.

i	The memory required in the target directory is checked before the backup. If the memory is insufficient for the backup, a warning is displayed.

6.2.2.4 Restoring the live database

The live database can be restored by using a backup file. In the process the current live database is overwritten completely by the data of the backup file.

▷ The "Backup" window is opened.

▷ A backup file in gz format exists.

1. Click the "Start restoration" button.
   ⇨ The Windows standard window for opening a file is open.
2. Select the backup file (extension *.gz).
3. Confirm selection.
   ⇨ The live database is overwritten.

6.2.3 Defining and administering user-defined events

With this administrator program you can define and administer up to 32 767 user-defined events. A maximum of 100 of these can be active. The activated event definitions are transferred to each machine that is activated for the evaluation in Stoll-knit report® 2. The machine operator can then trigger this user-defined event at any time.

An user-defined event consists of the following elements:

Term	Explanation
#	Identification number of the event.
Language	Language identifier for this event.
Type	Two event identifiers are differentiated: Info: This event only triggers an entry in the database. State: This event simultaneously triggers a change in the user-defined state.
Symbol	Symbol, consisting of up to six ASCII characters. The symbol is displayed on the user interface of the machine and during the evaluation in the Stoll-knit report® 2 ("Machine overview" menu). The symbol identifies an user-defined state.
Text	This text is displayed on the user interface of the machine and during the evaluation in the Stoll-knit report® 2 ("Machine overview" menu).

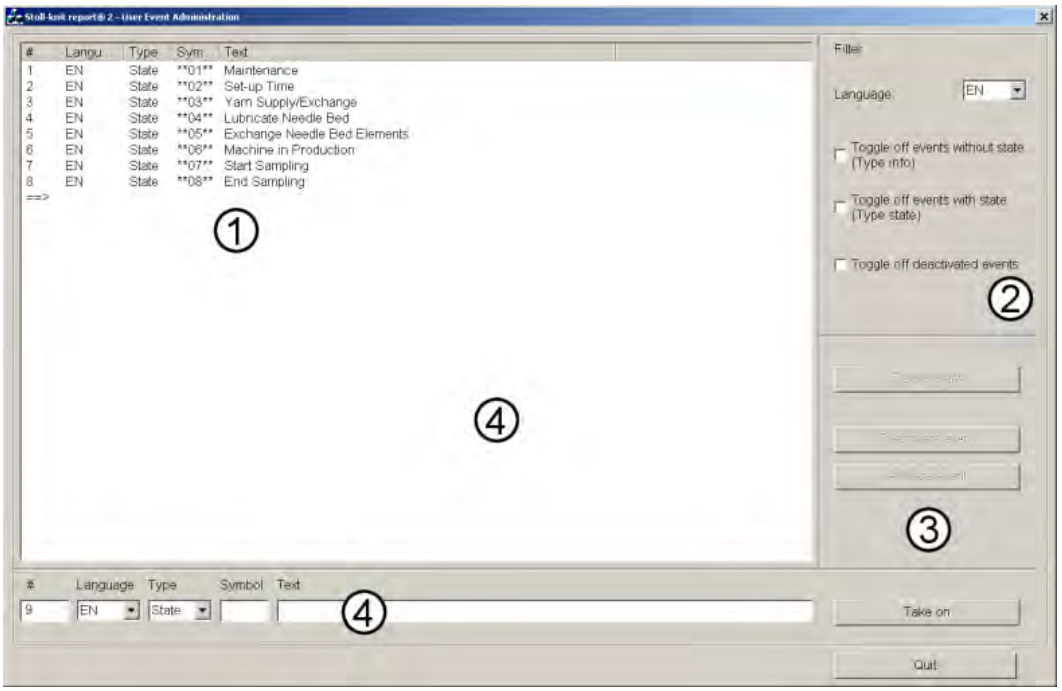
Elements of a user-defined event

Calling up the programme:

➜ Click 

"All Programs" \ "Stoll-knit report" / "User Event Administration" entry.

The "User Event Administration" window is opened.



"User Event Administration" window

Pos.	Explanation
1	Listing of the user-defined events in the display area. **#**: Identification number of the event **Language**: Language of the event: CN, DE, EN ... **Type**: Type of event: State or Info: Symbol for the event that was entered in the "Symbol" field and that can be displayed optionally in the machine overview. **Text**: Text that was entered in the "Text" field
2	Selection field and check boxes for filtering the displayed events: "Language" selects a language for display. If the field is empty, all the languages are displayed. "Toggle off events without status (Type info)" hides all the events of the Info type. "Toggle off events without status (Type info)" hides all the events of the **State** type. "Hide deactivated events" hides all the deactivated events (gray).
3	Command buttons for triggering actions: The "Delete event" command button deletes the marked input from the list. The "Deactivate event" command button deactivates the marked input in the list. The entry is displayed in gray. The "Activate event" command button activates the marked input in the list. The entry is displayed in black. The "Apply" command button includes the entries into the list. The "Exit" command button closes the window.
4	Editing line: Entry or selection of #, language, type, text

6.2.3.1 Defining user-defined events

▷ The "User Event Administration" window is opened

1. Select the "==>" entry in the list.

   - or -

➜ Click in the "#" field in the editing line.

2. Enter the current identification number in the editing line under "#".

i	An error message is displayed if an identification number is assigned twice for the same language or the same type. The error message is also displayed if the event is hidden by a filter.

3. Select the desired language in the "Language" list field.
4. If the event is to change the user-defined state, select the State type in the "Type" list field,

   - or -

➜ If the event is only to be stored as information in the live database, select the Info type.

5. Enter a meaningful text in the "Text" field.
6. Click the "Apply" button.

⇨ The event is accepted in the list and activated. At the same time it is transferred to the machines that are activated for the evaluation in Stoll-knit report® 2. The transfer to the machines can take up to five minutes.

For this, see also...

Triggering a user-defined event [▷ 48]

6.2.3.2 Deleting user-defined events

▷ The "User Event Administration" window is opened

▷ At least one user-defined event is displayed in the list.

1. Select the event that is to be deleted in the list.
2. Click the "Delete event" command button.
   ⇨ The "Delete user event" window is opened.
3. If all the event having the same identification number (#) but different languages are to be deleted, select the option "Delete all languages".

   - or -

   ➜ If only the marked event is to be deleted, select the option "Delete only selected language".
4. Confirm the selection with "OK" .
   ⇨ The event or events are deleted from the list and from the machines that are activated for the evaluation in the Stoll-knit report® 2. Deleting of the events from the machines can take up to five minutes.

6.2.3.3 Changing user-defined events

Only the "Symbol" field and the "Text" field can be changed.

If the identification number (#), the type or the language is to be changed, delete the event and enter it again with the changed values.

▷ The "User Event Administration" window is opened

▷ At least one user-defined event is displayed in the list.

1. Select the event whose symbol or text is to be changed in the list.
   ⇨ The symbol and text are displayed in the editing line in the "Symbol" and "Text" fields.
2. Change the symbol and/or text.
3. Click the "Apply" button.
   ⇨ The changed event is included in the list and at the same time transferred to the machines that are activated for the evaluation in the Stoll-knit report® 2. The transfer to the machines can take up to five minutes.

6.2.3.4 Deactivating/Activating user-defined events

▷ The "User Event Administration" window is open.

▷ At least one user-defined event is displayed in the list.

1. Select the event that is to be activated/deactivated in the list.
2. If the event is to be deactivated, click the "Deactivate event" command button.

- or -

➜ If the event is to be activated, click the "Activate event" command button.

Activated events are displayed in the "User Event Administration" window in black, deactivated ones in gray.

6.2.3.5 Filtering user-defined events

You can control the display of the user-defined events in accordance with the following rules:

Filter	Explanation
"Language" (..., CN, DE, EN ...)	The selected language is displayed. If the field is empty, all the languages are displayed.
"Toggle off events without status (Type info)"	Events of the Info type are hidden.
"Toggle off events with status (Type state)"	Events of the State type are hidden.
"Hide deactivated events"	Deactivated events (gray) are hidden.

▷ The "User Event Administration" window is opened

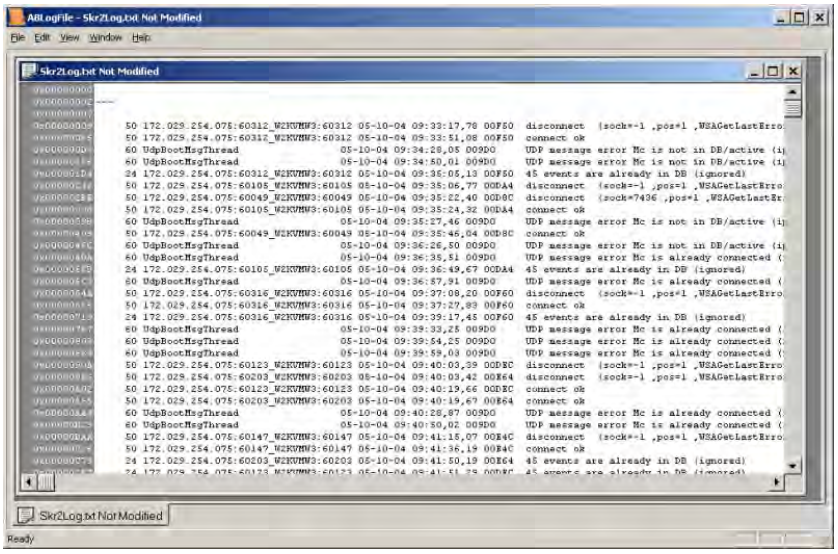
1. If all the user-defined events are to be displayed, deactivate all the check boxes and delete the language selection in the "Language" field (field remains empty).
2. If only events in a specific language are to be displayed, select, for example, DE as the language.
3. If no events of the Info type are to be displayed, activate the check box in front of "Toggle off events without status (Type info)".
4. If no events of the State type are to be displayed, activate the check box in front of "Toggle off events with status (Type state)".
5. If no deactivated events are to be displayed, activate the check box in front of "Hide deactivate events".

6.2.4 Displaying log messages

The SKR2 central unit writes messages into a log file during operation. The maximum size of the log file amounts to approx. 250 KByte. When this size is exceeded, a new log file is created. The log files are numbered consecutively. In order not to waste memory unnecessarily, the oldest log file is deleted when log file number 21 is stored.
In order to track errors you can have the log file displayed, also during operation, by using the freeware tool ABLogFile.exe (www.amleth.com\ablogfile).

Displaying the log file:

1. Click Start / **All Programs** / "Stoll-knit report" "Log File Viewer" entry.
   ⇨ The ABLogFile programme is opened.
2. Click File in the Open menu.
   ⇨ The Windows standard window for opening a file is open.
3. Change to the **Drive:**\skr2log directory.
   Drive is the drive on which you have installed the Stoll-knit report® 2 software.
4. Select the desired skr2log<number>.txt file.
   <number> is the sequential number of the log file. The log file without <number> is the current file.
5. Confirm selection.
   ⇨ The selected log file is displayed.



Log file display in the ABLogFile programme

7 Event definitions

For this, see also...

7.1 Pseudo events for secondary database

SKR2_TYPE_TEMP (Type ID = 0)

ID	ID Enum	Description	Change in status table
1	SKR2_TEMPEVT_BLOCK_BEGIN	"Starting mark" of an evaluation period of a temporary table.	The last valid status in relation to the evaluation beginning, or "unknown" (-1), if unknown, is entered in all the xx_STATE tables.
2	SKR2_TEMPEVT_BLOCK_END	"End mark" of an evaluation period of a temporary table.	The status "unknown" (-1) is entered in all the xx_STATE tables.
3	SKR2_TEMPEVT_DATA_END	"Data end mark" if the data end in the event table is reached within the evaluation period of a temporary table.	The status "unknown" (-1) is entered in all the xx_STATE tables.

7.2 Meta data events

SKR2_TYPE_META_DATA (Type ID= 1)

ID	ID Enum	Description	Change in status table
1	SKR2_IEVT_PATTERN_CHANGED	Pattern loaded	PATTERN_STATE = Pattern Name SEQ_STATE = Sequence name SEQ_LIST_STATE = Sequence list name ORDER_STATE = Order name and order element name
3	SKR2_IEVT_PATTERN_COUNTER_INC	Pattern run-through or sequence element run-through or order element run-through complete.	Increase PATTERN_STATE = COUNT
4	SKR2_IEVT_SEQ_COUNTER_INC	Sequence run-through complete.	Increase SEQ_STATE = SEQ_COUNT
5	SKR2_IEVT_SHIFT_CHANGED	Shift has been changed <ShiftID>.	SHIFT_STATE = Shift ID
6	SKR2_IEVT_LANGUAGE_ID	Message of the language ID <Language,Code_page,optional: Reboot Info> Example <"DE,1252,r"> or <"EN,1252">	No
7	SKR2_IEVT_USER_LOAD	User profile is loaded <Name>.	No, event is currently not used.
8	SKR2_IEVT_USER_SAVE	User profile is saved <Name>.	No, event is currently not used.
2	SK2_IEVT_PRODUCTIVITY_CHANGED	Productivity factors have changed. The productivity factors are bit-encoded: Bit 0 = Power 0 = Power down 1 = Power up Bit 1 = Productivity 0 = Unproductive 1 = Productive Bit 2 = Creep speed mode 0 = Creep speed mode off 1 = Creep speed mode on Bit 3 = Full stroke 0 = Full stroke off 1 = Full stroke on	The EVENTS bit is changed in the PRODUCTIVITY_FLAGS field in the BIT_PRODUCTIVE table.

For this, see also...

Bit mask for productivity states [▶ 163]

7.3 MC status events

SKR2_TYPE_MC_STATE (Type ID: = 2)

ID	ID Enum	Description	Change in status table
0	SKR2_MEVT_MASTER_00	Reserved	No
1	SKR2_MEVT_MASTER_01	Machine in production	MACHINE_STATE = 1 The EVENTS bit is changed in the PRODUCTIVITY_FLAGS field in the BIT_PRODUCTIVE table
2	SKR2_MEVT_MASTER_02	Stop: Engaging rod	MACHINE_STATE = 2
3	SKR2_MEVT_MASTER_03	Stop: Yarn feed	MACHINE_STATE = 3
4	SKR2_MEVT_MASTER_04	Stop: Piece counter to 0	MACHINE_STATE = 4
5	SKR2_MEVT_MASTER_05	Stop: Stop resistance	MACHINE_STATE = 5
6	SKR2_MEVT_MASTER_06	Stop: Position needle sensor	MACHINE_STATE = 6
7	SKR2_MEVT_MASTER_07	Stop: Fabric take-down	MACHINE_STATE = 7
8	SKR2_MEVT_MASTER_08	Stop: Program	MACHINE_STATE = 8
9	SKR2_MEVT_MASTER_09	Stop: Other	MACHINE_STATE = 9
10	SKR2_MEVT_MASTER_10	Stop: Shock stop	MACHINE_STATE = 10
11	SKR2_MEVT_MASTER_11	Stop: Racking error	MACHINE_STATE = 11
32001	SKR2_MEVT_MASCHINE_UP	Machine is started. The start mode is included as a parameter: 0 = Restart 1 = Warm start (... and further start modes in as far as available) Only the differentiation warm start/ no warm start is relevant for SKR2, because the states are retained at a warm start.	MACHINE_STATE = 32001 The EVENTS bit is changed in the PRODUCTIVITY_FLAGS field in the BIT_PRODUCTIVE table. In addition the BIT_PRODUCTIVITY bit is deleted during a restart.
32002	SKR2_MEVT_MASCHINE_DOWN	Machine is (was) shut down.	MACHINE_STATE = 32002 The EVENTS bit is changed in the PRODUCTIVITY_FLAGS field in the BIT_PRODUCTIVE table.

For this, see also...

Bit mask for productivity states [▶ 163]

7.4 User-definable events without status (info events)

SKR2_TYPE_ USER_INFO (Type ID = 3)

ID	ID Enum	Description	Change in status table
0	-	reserved	No
1	-	User Info 1	No
2	-	User Info 2	No
n	etc.	User Info n	No

7.5 User-definable events with status (status events)

SKR2_TYPE_ USER_MODE (Type ID = 4)

ID	ID Enum	Description	Change in status table
0	-	reserved	no
1	-	Triggering User Status 1	USER_STATE = 1
2	-	Triggering User Status 2	USER_STATE = 2
n	etc.	Triggering User Status n	USER_STATE = n

7.6 Sintral-generated events without status (info events)

SKR2_TYPE_ SINTRAL_INFO (Type ID = 5)

ID	ID Enum	Description	Change in status table
0	-	reserved	No
1	-	Sintral Info 1	No
2	-	Sintral Info 2	No
3	etc.	Sintral Info n	No

7.7 Sintral generated events with status (status events)

SKR2_TYPE_ SINTRAL_MODE (Type ID = 6)

ID	ID Enum	Description	Change in status table
0	-	reserved	no
1	-	Triggering Sintral Status 1	SINTRAL_STATE = 1
2	-	Triggering Sintral Status 2	SINTRAL_STATE = 2
n	etc.	Triggering Sintral Status n	SINTRAL_STATE = n

7.8 BO server events

SKR2_TYPE_ BOSRV (Type ID = 101)

ID	ID Enum	Description	Change in status table
1	SKR2_BOSRV_IEVT_TIMECHANGE	Time is reset.	No
2	SKR2_BOSRV_IEVT_TIME_IS_CHANGED	Time adjustment complete.	No TIME_ADJUST_DURATION is updated in all the xx_STATE tables.
3	SKR2_BOSRV_IEVT_CONNECT	Connection to machine established.	No
4	SKR2_BOSRV_IEVT_DISCONNECT	Connection to machine disconnected. The last WSA error (Windows Socket API) is sent as the parameter.	No
5	SKR2_BOSRV_CEVT_SKR_ON	SKR2 activated	No
6	SKR2_BOSRV_CEVT_SKR_OFF	SKR2 deactivated	Status "unknown" (-1) is entered in all the xx_STATE tables.
7	SKR2_BOSRV_MEVT_BO_LOST	Bo-exe was terminated unexpectedly - the BO has probably crashed	MACHINE_STATE = 32002

7.9 Pseudo events for primary database

SKR2_TYPE_ POLLCLIENT (Type ID = 121)

ID	ID Enum	Description	Change in status table
1	SKR2_POLLC_MEVT_RESTORE_DATA	is inserted after a restore and after Read Archive.	The status "unknown" (-1) is entered in all the xx_STATE tables.

7.10 Bit mask for productivity states

Information	Meaning	States	Set by
BIT_PRODUCTIVE	Productive phase	0 = Unproductive 1 = Productive	SK2_IEVT_PRODUCTIVITY_CHANGED
BIT_MANUAL_SLOW	Creep speed due to clicking the snail button manually.	0 = No 1 = Yes	SKR2_IEVT_PRODUCTIVITY_CHANGED
BIT_POWER	Machine On/Off	0 = Off 1 = On	SKR2_MEVT_MASCHINE_UP SKR2_MEVT_MASCHINE_DOWN
BIT_MANUAL_LONGSTROKE	Full stroke through manual deactivation of the stroke optimization.	0 = No 1 = Yes	SKR2_IEVT_PRODUCTIVITY_CHANGED

7.11 State change overview

	xx_POWER	xx_SLOW	xx_LONGSTROKE	xx_PRODUCTIVE	MC_STATE_CHG	MC_STATE	USER_STATE_CHG	USER_STATE	SINTRAL_STATE_CHG	SINTRAL_STATE	SHIFT_STATE_CHG	SHIFT_STATE	PIECE_LOOP_CHG	PATTERN_NAME_UPDATE	PATTERN_NAME_CHG	PATTERN_NAME	SEQ_LOOP_CHG	SEQ_NAME_CHG	SEQ_NAME	SEQ_LIST_NAME_CHG	SEQ_LIST_NAME	ORDER_NAME_CHG	ORDER_NAME	ORDER_ELEM_NAME_CHG	ORDER_ELEM_NAME	TIME_TO_NEXT_EVENT	TIME_ADJ_DURATION	EVENT_ID; EVENT_TYPE; EVENT_PARAM; MC_ID
1 / 1 IEVT_PATTERN_CHANGED	=1	-	-	-	-	-	-	-	-	-	-	-	+1	+1	?+1	=X	!+1	!+1	=X	!+1	=X	!+1	=X	!+1	=X	=dt	=0	*
1 / 2 IEVT_PRODUCTIVITY_CHANGED	=1	=X	=X	=X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
1 / 3 IEVT_PATTERN_COUN-TER_INC	=1	-	-	-	-	-	-	-	-	-	-	-	+1	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*

1 / 4 IEVT_SEQ_COUNTER_INC	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+1	-	-	-	-	-	-	-	-	=dt	=0	*
1 / 5 IEVT_SHIFT_CHANGED	=1	-	-	-	-	-	-	-	-	-	?+1	=X	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
1 / 6 IEVT_LANGUAGE_ID	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
1 / 8 IEVT_USER_LOAD	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
1 / 9 IEVT_USER_SAVE	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
2 / ID MEVT_MASTER_<ID> mit ID = {1, 2, 3, 5, 6, 7, 8, 9, 10, 11}	=1	-	-	-	?+1	=ID	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
2 / 4 MEVT_MASTER_4	=1	-	-	=0	?+1	=4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
2 / 32001 MEVT_MASTER_UP	=1	-	-	-	?+1	=32001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
2 / 32002 MEVT_MASTER_DOWN	=0	-	-	-	?+1	=32002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
3 / ID USER_INFO_EVENT X	=1	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
4 / ID USER_M	=1	-	-	-	-	-	?+	=I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=d	=0	*

ODE_EVENT X							1	D																	t		
5 / ID SINTRAL_INFO_EVENT X	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
6 / ID SINTRAL_MODE_EVENT X	=1	-	-	-	-	-	-	-	?+1	=ID	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
101 / 1 BOSRV_IEVT_TIMECHANGE	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=0	=dt	*
101 / 2 BOSRV_IEVT_TIME_IS_CHANGED	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
101 / 3 BOSRV_IEVT_CONNECT	=1	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
101 / 4 * BOSRV_IEVT_DISCONNECT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
101 / 5 * BOSRV_IEVT_SKR_ON	=1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
101 / 6 BOSRV_IEVT_SKR_OFF	=000	=000	=000	=000	?+1	=-1	?+1	=-1	?+1	=-1	?+1	=-1	+1	+1	?+1	=""?"	+1	?+1	=""?"	?+1	=""?"	?+1	=""?"	?+1	=""?"	=dt	=0	*
101 / 7 BOSRV_IEVT_BO_LOST	=000	=000	=000	=000	?+1	=-1	?+1	=-1	?+1	=-1	?+1	=-1	+1	+1	?+1	=""?"	+1	?+1	=""?"	?+1	=""?"	?+1	=""?"	?+1	=""?"	=dt	=0	*
121 / 1 POLLC_MEVT_RESTORE_DATA	=000	=000	=000	=000	?+1	=-1	?+1	=-1	?+1	=-1	?+1	=-1	+1	+1	?+1	=""?"	+1	?+1	=""?"	?+1	=""?"	?+1	=""?"	?+1	=""?"	=dt	=0	*
121 / 2 SKR2_P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=d	=0	*

OLLC_MEVT_REPAIR_TABLE																									t		
0 / 1 TEMPEVT_BLOCK_BEGIN	init	init	init	init	+1	init	+1	init	1+1	init	+1	init	+1	+1	+1	init	+1	+1	init	+1	init	+1	init	+1	init	=dt	=0	*
0 / 2 TEMPEVT_BLOCK_END	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=dt	=0	*
0 / 3 TEMPEVT_DATA_END (ohne 0 / 2)	=0	=0	=0	=0	?+1	=-1	?+1	=-1	?+1	=-1	?+1	=-1	+1	+1	?+1	="?"	+1	?+1	="?"	?+1	="?"	?+1	="?"	?+1	="?"	=dt	=0	*

=X	Depends on event parameter
=0, =1, =-1, ="?", ...	Direct assignment, The Valid_Mask is set to valid at flags
=00	Direct assignment, Valid_Mask flag is set to invalid
+1	Contents +1
?+1	Contents +1, if the corresponding state has been changed by the event.
!+1	Contents +1, if the corresponding state has been changed by the event. Since a pattern load event is generated after every sequence, sequence list, order (active pattern without sequence, order, etc.), the field is increased at every start / end of a sequence / order, etc.
=dt	Time difference to the next event
int	Is initialized from preceding events
-	No contents change
*	direct

Key word directory

Symbole

A

B

C

D

E

F

G

H

I

L

M

N

O

P

R

S

T

U