User manual CMIS — Ver. 5

Certus Management Information System®





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Original instructions

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The manufacturer reserves the right to make changes to design and component specifications.

1 Before you start

1.1 End user licence agreement and limited warranty

1. INTRODUCTION

1.1 - This is a contract between you and Electrolux Professional AB. You must accept this license agreement in order to install and use the software.

2. USAGE

2.1 - You may install one copy of the software onto a hard drive or another storage device up to the Permitted number of computers.

2.2 - You may install one copy of the software on a single file server for the purpose of downloading and installing the software onto a hard disk or other storage device.

2.3 - You may make backup copy of the Software, in accordance with the provisions of the European Communities (Legal protection of Computer Programs) Regulations, 1993, provided your backup copy is not installed or used on any other computer.

2.4 - You must accept the license agreement from Embarcadero regarding the use of Interbase in order to install and use CMIS.

3. COPYRIGHT

3.1 - The software and any copies that you make are owned by Electrolux Professional AB and its suppliers.

3.2 - Interbase is a product of Embarcadero Technologies, Inc.

4. LICENSE TRANSFER

4.1 - You may not rent, lease, sublicense or lend the software without written approval from Electrolux Professional AB.

5. WARRANTY DISCLAIMER.

5.1 – The software is provides "AS IS and without warranty of any kind. To the maximum extent permitted by applicable law, Electrolux Professional AB and its licensors and suppliers hereby exclude and disclaim all implied or statutory warranties.

5.2 – There is no warranty that the product will be error-free or will function without interruption. You assume the entire risk for the result obtained using the product.

6. LIMITATION OF LIABILITY.

6.1 – In no event will Electrolux Professional AB or its suppliers be liable to any party for any direct, indirect, incidental, consequential, exemplary, special or punitive damages, including any loss of profit, revenue, business opportunity or data, arising from or relating to this license or the product, whether in contract, in tort or otherwise, even if Electrolux Professional AB knew, should have known or has been advised of the possibility of such damages.

1.2 System requirements

System requirements for CMIS are divided in three parts, PC, Network and Machine.

PC

- Microsoft Windows XP (x86), Windows Vista (x86/x64), Windows 7/8/10/11 (x86/x64)
- Microsoft Internet Explorer 6.0 or higher
- Intel Pentium compatible, 900Mhz or better
- Recommended Free Harddisk space is 10 GB
- SVGA display 1280 x 1024 resolution
- CD-ROM drive
- 1 Free serial port (9-pole DSUB, DB9M)
- Mouse or compatible pointing device

Network

- Maximum 30 machines connected to a single network
- · Maximum length of wire in a network is 500 meters

Recommended wire: Type: Control, Instrumentation or Computer cable. Stranded wire, Tinned Copper, 4 x 0.22mm2 (= 4 x AWG24), Diam 4-5 mm.

Insulation: PVC insulation, 300V, 70°C or better. Approvals: According to local regulations.

1.3 Machines

1.3.1 Washers with Clarus Control

Hardware

If the machine is not equipped with the CMIS option from factory, use Machine interface, kit No 1 for all machines except FLE400FC, FLE850MP, W3400H - W31100H and W4400H - W41100H, WUD7100 - WUD7265

For W3400H to W4600H (– 980/1571) and W3850H to W41100H (– 1220/730) use Machine interface, kit No. 2. For W4400H, W4600H (980/1572 –) and W4850H, W41100H (1220/731 –), WUD7100, WUD7145, WUD7200 and WUD7265 use Machine interface, kit No. 9.

CMIS is connected to a serial port (X7) on Clarus Control CPU board. It is important to verify that serial port is free to use. In some specific installations this serial port might have been used for larger Liquid supply systems. Verify this with the supplier of liquid supply before an installation is made. Alternative solutions are available.

Software

CMIS protocol is implemented in Clarus Control software as listed below: FLE125, FLE175, FLE225, FLE400FC, FLE850MP, FLE335MP, EXSM230, EXSM350, W3400H, HS 2120, HS 2170, HS 2220, NS 2325, HS 2400 Version 3.4 and later W375N to W3330N W385M to W3330M W365H to W3300H W3600H, W3850H, W31100H W3280X, W3350X, W3600X EXSM665c, EXSM680c, EXSM6135c Version 1.0 and later W475M to W4330M W475S to W4330S W465H to W4300H W4400H to W41100H WUD7100 to WUD7265 All versions WS/WSB3230H to WS/WSB3670H WS/WSB4250H to WS/WSB4650H WPB3690H to WPB31080H, B7-700, B7-900, B7-1100 Version 1.8 and later Version number could normally be verified by reading part no and version number in top line of display of Clarus Control.

Machines with earlier versions of software than above listed need to be updated to support CMIS.

1.3.2 Washers with Compass Pro

Hardware

CMIS requires a machine interface kit to be installed in the machine. Use Machine interface, kit No 8 for all machines CMIS is connected to the serial port (RS232) on Compass Pro CPU board.

Software

CMIS protocol is implemented in Compass Pro software versions as listed below: W555H, W575N to W5330N, W585S to W5330S, W565H to W5300H, W5280X, W5350X, W5600X, W720 to W777, SU720 to SU777, EX718 to EX775, EXSM765, EXSM780, EXSM7135 WUD718 to WUD775 WED720 to WED777 WLD720 to WLD777 WSD765, WSD780, WSD7135, H7-55, H7-75 to H7-300, S7-75 to S7-330, N7-75 to N7-330 Version 6.36 and later WB5130H, WB5180H, B7-130, B7-180 Version 6.36 and later WD5130, WD5240 WDX730, WDX755 Version 6.36 and later WSB5180H, WSB5250H, WSB5350H, WS5180H, WS5250H, WS5350H Version 6.36 and later WS/WSB5200H, WS/WSB5270H Version 8.24 and later WH/WHB5500H. B7-500 Version 8.22 and later Version number can be verified by reading FW version number in Service mode under Config 1 – System – System information - CPU, on the machine.

Machines with earlier software versions than above listed need to be updated in order to fully support CMIS.

1.3.3 Dryers with Selecta Control version 1 or 2

Hardware

CMIS requires a machine interface kit to be assembled in machine. Following installation kit should be used: Interface machine, kit No. 3 (Selecta Control version 1) T3190 T3250 T3290 up to machine No. -20300/26304 and -03290/539 T3300 T3350 T3530 up to machine No. -20500/21748 T3650 up to machine No. -20750/9162 T4250 up to machine No. -23250/6969 T4350 up to machine No. -23250/6969 Interface machine, kit No. 5 (Selecta Control version 2/Compass Control) T4130 T4190 Interface machine, kit No. 6 (Selecta Control version 2/Compass Control) T4300 Interface machine, kit No. 7 (Selecta Control version 2/Compass Control) T3290 from machine No. 20300/26305- and 3290/540-T3530 from machine No. 20500/21749- and 60500/xxxx T3650 from machine No. 20750/9163- and 60750/xxxx T3900 T31200 T4250 from machine No. 23250/6970- and 04250/xxxx-T4290 T4350 from machine No. 23250/6970- and 04350/xxxx-T4530 T4650 T4900/ T4900CR T41200/ T41200CR D7100 D7135

Software

Selecta Control version 1

CMIS is implemented in Selecta Control software version 3.23 or later.

Version number can be read at the label on the Process module or in the service menu parameter number 3.07. It is possible to upgrade an older version of Selecta control to a version that supports CMIS by installing 988 9162-37 Upgrade kit Selecta 110.

Selecta Control version 2

CMIS is implemented in Selecta Control software version 4.10 or later.

Version number can be read in service menu parameter number 3.07.

It is possible to upgrade an older version of Selecta Control by installing an upgrade kit for the actual dryer type. Please refer to spare part list for more information.

1.3.4 Dryers with Compass Pro

Hardware

CMIS requires a machine interface kit to be installed in the machine.

Use Machine interface, kit No 8 for all machines.

Note!

T5300S/TD30X30P/D735S/D7300S and T5425S/TD45X45P/D750S/D7425S requires 2 sets of machine interface kit.

CMIS is connected to the serial port (RS232) on Compass Pro CPU

Software

CMIS protocol is implemented in Compass Pro FW versions as listed below:

T5130, T5130C, T5130LE T5190, T5190LE, T5290, T5500, T5675, T5250, T5350, T5300S, T5425S TD6-7, TD6-14, TD6-20, TD6-7HP, TD6-14HP, TD6-20HP, TD35, TD67, TD83, TD30X30P, TD45X45P, D715, D730, D745, D735, D767, D783, D735S, D750S, D715HP, D730HP, D745HP, D7-130, D7-135, D7-190, D7-290, D7-255, D7-360, D7-550, D7-675, D7-135HP, D7-255HP, D7-360HP

Version 6.36 and later

Version number can be verified by reading FW version number in Service mode under Config 1 – System – System information - CPU, on the machine.

Machines with earlier FW versions than above listed need to be updated in order to support CMIS.

1.3.5 Ironers with Electronic control panel

Hardware

CMIS requires interface kit machine to be assembled in ironer.

Use Machine interface, kit No. 4 (Electronic Control panel) for following models:

IC33316 to IC33320 IC43316 to IC43320 IC35019 to IC35032 I7-3316 to I7-3320 17-4819 to 17-4832

Software

Electronic Control panel:

CMIS is implemented in software version 5.5 and later.

Version number can be read in display during power up.

It is possible to upgrade an ironer from older software version by replacing CPU.

Contact ELS for more information.

1.3.6 Barrier Washers with Clarus TS

Hardware

If the machine is not equipped with the CMIS option from factory, use Machine interface, kit No 10. CMIS is connected to the serial port CP1 in Clarus TS electric cabinet.

Software

CMIS protocol is implemented in Clarus TS software as listed below: WP/WPB4700H to WP/WPB41100H WH/WHB5500H Version 2.50 and later. Software version number can be verified by reading part no and version number in top line of display of Clarus TS display.

Machines with earlier versions of software than above listed must be updated in order to fully support CMIS.

2 Installing CMIS

See the installation manual for installing CMIS.

3 Overview

3.1 What is CMIS

CMIS is an easy to use easy to install Management Information System with centralized administration from one PC. CMIS is built up with a PC, a multi-drop network designed to handle up to 30 machines, and finally washing machines, tumble dryers and ironers built with latest technology from Electrolux Professional AB.

CMIS gives you all vital statistics from your washer extractors, tumble dryers and ironers. You can use the data to identify and remove any wastage, thereby minimizing costs.

- Information as:
- Run time
- Idle time
- Machine usage
- Total consumption
- Water consumption
- Detergent consumption
- Energy consumption
- Load (machines with IWS or AWS* only)
- Washing cycles
- Drying cycles
- Ironing batches
- Ironed pieces

is available.

CMIS provides process validation and proof of compliance, thereby proving you meet customers' demands.

CMIS alerts you to process errors and logs maintenance work, thereby maximizing uptime.

In short, CMIS lets you fine-tune your process for maximum profitability — while at the same time securing quality results and your professional reputation.

* Weight of wash load only available on Clarus Control and Compass Pro Barrier washers with IWS, and Compass Pro washers with AWS (firmware version 8.14 and above).

3.2 Using the program

Note!

In order to be able to view all screens shown in this manual, it is required that the network is physically set up and that machines are connected according to the installation manual.

When CMIS is started, the machine information menu is displayed.

Using this menu, there are a number of different ways of navigating in the program. The same function can be activated in several ways.

In this manual we describe one of the methods, but you may find after having worked with the program for a while that another suits you better.

For example, statistics can be activated in one of the following ways:

- 1. Click on the Statistics button.
- 2. Select required statistics in the application main menu Statistics.
- 3. Select Show statistics page in View.
- 4. Click directly on the required statistic in the Toolbar.



Using the right mouse button, there are always a number of functions which can be adapted depending on which menu you are in.

The method you choose depends on how you are used to working and what suits you best.

The following menus and functions are always shown in CMIS:

- 1. Short-cuts to Network settings, Main Settings, Database Settings, Health Care Settings, Working Days Settings, Customize, Full Screen, Process Viewer, View Machines.
- 2. Main menu File. Backup functions and process viewer.
- 3. Main menu **Machine**. Processes, programs, messages, settings and other machine related information. See also 13, 14, 15, 16 and 17.
- 4. Main menu **Statistics**. Run hours, consumption figures and other statistics.
- 5. Main menu Process Validation. Lets you select time interval to view validated processes within.
- 6. Main menu Settings. List of settings for network, application, database and health care.
- 7. Main menu View. Lets you select to view Machines, Statistics or Process Validation. See also 9, 10 and 11.
- 8. Main menu **Help**. Link to CMIS Homepage, view CMIS version.
- 9. Short-cuts for functions under Statistics
- 10. Quick button to view Machines screen.
- 11. Quick button to view Statistics screen.
- 12. Quick button to view Process Validation screen.
- 13. Short-cuts for functions under Process validation.



Further information on each function is described in this manual.

4 Software description and settings

4.1 Machine

Machine Information could be accessed by simply pressing the Machines button in the System window or by using any of the application main menus Machine or View. The positions of the buttons and fields for Machine are displayed below.

- 1. Quick buttons to information view
- 2. Activate Machine button
- 3. Deactivate Machine button
- 4. Printer button
- 5. Network information window. Displays address, name and status for the machines in the network
- 6. Shows selected machine's name
- 7. Machine free text. Shows additional text for a machine



Certain buttons and fields are accessible in all sub-menus in Machines view.

Printer button
Activate machine
Deactivate machine
Network information window
Machine name
Machine free text

Quick buttons to the available views in Information window:

	Machine Process
H	Programs in machine
200	Service, previous and future
3	Error log
٩	Machine settings

4.1.1 Activate / Deactivate machine

Activate is used to activate a machine in the network.

Deactivate is used to deactivate a machine in the network that temporary should or could not collect data. If a machine is not connected and the communication time-out's for a long period it loads the communication in the network. For best performance it is recommended to disable those machines manually by pressing Deactivate. Reason for this could be that machine is disconnected from power because of longer service or failure etc.

If CMIS for some reason is closed down and a machine has timed-out, it will automatically be disabled at start, and need to be activated manually again in order to retrieve data.

4.1.2 Network information window

Network information window is divided in three columns:

- Address
- Name
- Status

Address

The address shows all machines in Network where the first digit is the Network designation and the second digit is the machine address number. This number is set in service mode of the machine, see CMIS installation manual. In front of the Machine address an Icon shows the status of the machine:

۲	Machine inactive (i.e. deactivated)
0	Machine idle
0	Machine in process – Normal run
0	Machine in process – Process validated
S.	Machine in service menu
۲	Machine alarm/Error on machine or in network

Name

This field describes which type of machine each machine address in the network corresponds to. Machine name is configured from factory as the standard Model Name, but could easily be changed in the field "Machine name" at the bottom of the System window.

Status

Status column shows actual information about selected program, program step, error code etc for all machines in network.

4.1.3 Machine name

Here you can change the name of selected machine.

4.1.4 Machine free text

In this field you can enter additional information for a specific machine, useful if the customer want to make a detailed description of the machine.

4.1.5 Machine — Process Information window

The Process window provides actual information on the status of all active machines in the CMIS network. It uses different window layouts depending on which kind of machine is selected, washer, dryer or ironer. Below is an example from a washer.

- 1. Wash / drying progress. Ironing batch
- 2. Process information
- 3. Machine information
- 4. Temperature / water level / RMC graph
- 5. Program progress / Ironed pieces



A closer description of the Process window for different machine types:

4.1.5.1 Process Information window — Washers

Machine information

Gives additional information of the selected machine in the System window, such as Manufacturer, Model, Firmware version in machine, Date when connected to network, Time for last service and Number of wash cycles today.

Process information

Gives additional information about an existing process for the selected machine. Some information is only available when machine is running.

Current Batch

Batch ID could be configured to be entered manually on the washing machine (at start of a wash) or created automatically by the washing machine.

A manually entered Batch ID is displayed as a four digit number ex 1234.

An automatically created Batch ID is always displayed as a four digit number with square hatches ex [3224].

For configuration of Batch ID see System setup/Run settings.

Start time

Shows start time of current wash cycle.

Heating

Shows whether machine is heating or not.

Level

Shows actual level in Scale units.

Set level

Shows programmed level in Scale units for current wash module.

Rpm

Shows actual drum speed in Rpm.

Temperature

Shows actual temperature.

Set temp

Shows programmed temp for current wash module.

Program

Shows actual wash program number and name.

Step

Shows current program step.

Wash progress

Shows:

- Actual run time for selected wash
- Wash progress bar showing percentage of estimated program run time
- Program number and name

Temperature & Water level

Shows a graph of current wash cycle including values for Set temperature, Actual temperature, Set level and actual level for selected machine/program.

Program progress

Shows additional information about existing program Start time of program step Duration of program step Consumption data during each program step. Data is calculated from values set in Machines – Settings.

Zoom the graph

Zoom in by selecting a point in the graph with left mouse button and drag down to the right of the area you want to zoom.

This could be done repeated times.

Zoom out by selecting a point in the graph with left mouse button and drag up to the left. This will revert the graph to full zoom.

4.1.5.2 Process Information window — Dryers

Machine information

Gives additional information of the selected machine in the System window, such as Manufacturer, Model, Firmware version in machine, Date when connected to network, Time for last service and Number of drying cycles today.

Process information

Gives additional information about an existing process for a specific machine. Some information is only available when machine is running.

Current Batch

Shows current batch number. For dryers, batch ID is always created automatically by machine.

Start time

Shows start time of current drying cycle.

Heating

Shows whether machine is heating or not.

Energy

Shows current energy consumption.

Inlet temp Shows actual inlet temp.

Set inlet temp Shows programmed inlet temp for current drying cycle.

Outlet temp

Shows actual outlet temperature.

Set outlet temp

Shows programmed outlet temp for current drying cycle.

RMC

Shows actual RMC value (Residual Moisture Content) for current drying cycle. (Only dryers with RMC system, if an RMC controlled program is run)

Set RMC

Shows programmed RMC value for current drying step.

Program

Shows actual drying program number and name.

Step

Shows current program step.

Drying progress

Shows:

- · Actual run time for selected wash/drying
- Wash/Drying progress
- Program number and name

Temperature & RMC

Shows a graph of current drying cycle including Set Inlet / actual inlet temperature, Set Outlet / actual outlet temperature.

Set RMC / actual RMC is shown if dryer is equipped with RMC meter and program is an RMC program.

Program progress

Shows additional information about existing program

Start time of program step

Duration of program step

Consumption data during each program step. Data is calculated from values set in Machines – Settings.

Zoom the graph

Zoom in by selecting a point in the graph with left mouse button and drag down to the right of the area you want to zoom.

This could be done repeated times.

Zoom out by selecting a point in the graph with left mouse button and drag up to the left. This will revert the graph to full zoom.

4.1.5.3 Process Information window — Ironers

Machine information

Gives additional information of the selected machine in the System window, such as Manufacturer, Model, Firmware version in machine, Date when connected to network, Time for last service and total number of pieces ironed today.

Process information

Gives additional information about an existing process for a specific machine. Some information is only available when machine is running.

Current Batch

Shows current batch number. For ironers batch ID is always created automatically by machine.

Run mode

Shows current run mode, auto or manual.

Start time

Shows start time of current batch.

Energy

Shows energy consumption for current batch.

Heating

Shows whether machine is heating or not.

Piece counter

Piece counter for current batch.

Set temp

Shows programmed temp for current batch.

Left temp

Shows actual temp on left hand side of cylinder.

Middle temp

Shows actual temp on middle of cylinder.

Right temp

Shows actual temp on right hand side of cylinder.

Cylinder speed

Shows actual cylinder speed for current batch.

RMC out

Indicates if current RMC out (Residual Moisture Content) is above or below set limit.

Step

Indicates if ironer is running.

Ironing batch

Shows:

- Actual run time for selected ironing batch
- Status (heating/running/ready/cooling down)
- Number of pieces processed in current batch

Temperature & RMC

Shows a graph of current ironing batch including:

- Set temperature
- Actual temperature on left / right and centre of cylinder.
- Accepted RMC level *
- Average RMC out for each ironed piece *

Ironed pieces

Shows additional information about processed pieces:

- Piece number
- Time when start processing
- Ironing time for sheet
- Average RMC value for current sheet *
- · Length of each ironed piece, calculated in ironer

Note!

* When Health care settings for ironers is activated, accepted RMC level will be shown in graph. Sheets with RMC exceeding this level will be coloured red = Not accepted.

Customize graph

For ironers it is possible to customize the graph by clicking the "Customize graph button" (A).

A	
lp	
A A A A A A A A A A A A A A A A A	
🖻 0:14 IC44832 LF	
Process Service 3 Errors Settings	
Process validation settings - Show piece number 🛛 Customize gra	ph
Ironing batch	
00:40:02	

From the Customize graph window you can:

- Set up how many minutes that should be displayed in graph (default 30 minutes).
- Decide whether piece number should be displayed in graph or not.

Ironer graph settings	×	
Minutes shown in graph	OK Cancel	
		fig

Zoom the graph

Zoom in by selecting a point in the graph with left mouse button and drag down to the right of the area you want to zoom.

This could be done repeated times.

Zoom out by selecting a point in the graph with left mouse button and drag up to the left. This will revert the graph to full zoom.

4.1.6 Machine Programs (only washers and dryers)

The Programs window provides information about which programs are available in each machine in the network. Here you can:

- Retrieve or update the program library for a machine.
- Reset program information.
- See a list of currently available programs.
- See Program information.
- 1. Fetch program library
- 2. Reset program information
- 3. Field displaying the machines programs
- 4. Program information

_									
1	Certus Management Information System)							×
ile	Machine Statistics Process Validation Settings View He	lp						15:12	:25
1		a 0	s a a 9		6 5	1			
1	System	0:11	W4180H 2 I/O						
	Machines 🚠 Statistics 🔝 Process Validation	Proces	s I Programs Service	C Errors	Settings				
2	🛛 🖬 💊 🥥 📄 📕 🎯 View -	GIA	Fetch program library	Reset progr	am information	Sort list			
d	dress Name Status	Progr	ams						
	0:2 W2180H 1 Idle	#	Name	Times runned	Machine active	Last time taken	Lastrun	Process validate	
		H 011	11.WAXED FABRIC	0	0%	00:00			
2	0:3 14250 Idle	H 022	2.SUITS HALF	15	10%	01:00	-		
•	0:4 💽 W3130H 1 Idle	H 024	2.SILK HALF	3	2%	01:29	*		
	0:11 💽 W4180H 2 Idle	H 032	LEATHER HALF	1	1%	01:36	25		
	0:12 T4350 Anticrease (PO2)	H 100	TEST2	1	1%	00:00	÷		
2		HH 202	2.SUITS MANUAL	10	7%	00:00	*		
1	0:14 DIC44832 LF Idle	HH 222	IMPREG 35	0	0%	00:00	2		
		IH 900	TEST	5	3%	00:00	2		
		H 980	BEDLINEN 90C	0	0%	00:00			
		HH 989	IMP 35%FACK2	5	3%	00:26	*		
		H 991	NORMAL 95°C	3	2%	20:49			
		H 992	NORMAL 60°C	11	7%	00:51	2		
		H 993	NORMAL 40°C	10	7%	00:45	<i>w</i>		=
		H 994	INTENSIVE 95°C	0	0%	00:00	*		
		FH 995	INTENSIV 60°C	1	1%	03:48	*		
1		HH 996	PERM.PRESS 60°C	0	0%	00:00	2		
		H 997	PERM.PRESS 40°C	0	0%	00:00	<i>v</i>		
		HH 998	DELICATE 30°C	0	0%	00:00	-1		
		H 999	EXTR. HIGH 5MIN	35	23%	00:13	2		*
N > N	achine name /4180H 2 I/O achine free text showroom	Name Fastest Fastest Longest	EXTR.HIGH SMIN am Information - run - date - trun - t date - t date -	35	23%	00:13			*

4.1.6.1 Fetch program library

Fetch program library is a function for updating the program library in CMIS for a specific machine. This could be necessary if the machine was not in the idle position when it was configured or if the machine has been supplemented with additional programs.

To retrieve or update the program library for a machine:

- 1. Make sure the machine from which the program library is to be retrieved is idle position, showing the main menu.
- 2. Select Machines view in Systems window.
- 3. Select the desired machine.
- 4. Select Programs view.
- 5. Click on Fetch program library.

4.1.6.2 Reset program information

Pressing this button will clear all collected program data like number of programs run, program run times and last run, for selected machine.

4.1.6.3 Field displaying the selected machine programs

Displayed here are the programs in the selected machine.

4.1.6.4 Program information

Program information is a field containing more detailed information about a selected program.

4.1.7 Machine — Service

The Service window provides information about all the alarms that have been issued for the machine. Service alarms are grouped for each machine and are displayed when a machine is selected. Under Machine service, you can see whether the service has been carried out, as well as when and by whom.

To define your own service alarms, see Machine - Settings / Custom service.

In Machine service it is possible to:

- Acknowledge service alarms and print service reports.
- Remove old service alarms (= purge).
- · Check service in the service alarm field.
- · Quickly inspect information about service alarms in the Service Performed field.
- 1. Printer
- 2. Service machine
- 3. Purge
- 4. Field for service alarms
- 5. Field for more detailed text about service alarms



4.1.7.1 Field for service alarms

Status

a for	
0	

	Indicates service not yet acknowledged.
e.	
	Indicates acknowledged service.

Service needed — Time for service alram.

Run hours — The machine's operating time in hours.

Service performed — Time when the service was acknowledged.

Service sign — Signature of person carrying out service.

4.1.7.2 Purge

Purge clears the database in accordance with the settings in System Setup / Database settings. Service alarms older than the settings in Passive database are completely deleted.

To remove old service alarms:

- 1. Select Machines view in Systems window
- 2. Select desired machine
- 3. Select Service view
- 4. Click on Purge

4.1.7.3 Service machine

Service machine is used to acknowledge a service alarm and print a service report for the alarm. In addition, it is possible to enter text about the service carried out.

To acknowledge service alarms and print service reports:

- 1. Select Machines view in Systems window
- 2. Select the relevant machine
- 3. Select Service view
- 4. Check the service notification shown and carry out any necessary service work on the machine.
- 5. Click on Service machine and acknowledge service alarms with your name or signature. Click on Printer if you require a service report to be printed.

Network Machine Service Time Run hours	0 - COM1 0:4 W3130H 1 I/O Monthly Service 2011-10-14 15:21:48 20929 Hours	
Service text	Clean inlet water filters OK Clean drain valve OK Check drive belt tension OK	*
Sign	Service Manager	*

4.1.7.4 Service performed

In the Service performed field it is possible to quickly inspect the selected service alarm.

4.1.8 Machine — Errors

Machine errors view provides information about the most recent error codes for each machine in the network. Error codes are grouped for each machine and displayed when the relevant machine is selected.

In Machine error it is possible to:

- Reset the trip counter to operating time (Reset trip counter).
- View operating times and number of unbalances (only washers).
- View the most recent error codes faults for each machine.
- Read a more detailed description of the error, including information on recommended remedial action.
- 1. Reset trip counter for operating time
- 2. Operating time and unbalance counter
- 3. Field for the most recent error messages for each machine
- 4. Error description with recommended action



Reset trip counter for operating time

This is a function for resetting the trip counter for operating time. This can be done e.g. when a service is being carried out.

To reset the trip counter:

- 1. Select Machines view in Systems window
- 2. Select desired machine
- 3. Select Errors view
- 4. Click on Reset trip counter

Operating time and unbalance counter

Total run time hours

Shows total operating time for the selected machine in the network.

Total trip run time hours

Shows the trip counter for operating time.

Hours since last service

Shows time since last service.

Reset automatically when a service is carried out, see Machine / Machine service. Can also be reset manually on washer extractor's.

Total number of unbalances

Displays the number of unbalances (only washers).

Latest errors

Displays the machine's most recent error messages. To check the error messages for a machine:

- 1. Click on Machine
- 2. Click on Machine error
- 3. Select desired machine
- 4. Select an error message in the Latest errors box. In the Error description box, a brief description of the error now appears with a recommended remedial action.

Error description

When an error message is selected, a brief description of the error and a recommended remedial action are displayed here.

4.1.9 Machine settings

Machine Settings view provides the possibility to customize service events or adjust consumption settings.

- Custom service Define individual service alarms for machines in the network.
- Water Calibrating water flow (I/min) for each water valve/machine. Used for calculating statistics (only washers).
- Powder Calibrating water flow for flushing down powder detergent. Used for calculating statistics (only washers).
- Liquid Calibrating flow for dispensing liquid detergent. Used for calculating statistics (only washers).
- Energy Calibrating heating output (kW). Used for calculating statistics.

CMIS is supplied with pre-set values from the factory which are common for each machine type. These can be calibrated locally depending on water flow and the accuracy requirements in the statistics.

By pressing Restore Factory Settings, any manually edited values will be reset to factory settings for the selected machine and selected function.

4.1.9.1 Custom service

Via the Custom service menu it is possible to define individual service alarms for one or more machines in the network. Using the buttons it is easy to change service alarms for a machine.

Note that a defined service alarm only applies to the machine for which it is created. If you want to use the same service alarm for several machines, it is best to use the Save and Retrieve functions via the button menu.

- 1. Retrieve service alarm from hard drive
- 2. Save service alarm onto hard drive
- 3. Create new service alarm
- 4. Modify existing service alarm
- 5. Delete service alarm
- 6. Print service alarm
- 7. Restore factory settings



Add a service alarm

To add a new service alarm:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Custom service
- 4. Select desired machine
- 5. Click on Add a service
- 6. Fill in or select the following:

		▼) s nn	Monthly Service Repetitive 200 Clean inlet water filters Clean drain valve Check drive belt tension etc
--	--	---------------	--

- Description gives the name of the service alarm, e.g. Monthly service.
- Type shows if the service alarm is to be issued once (Once) or repeated (Repetitive).
- Time (hours) indicates after how many operating hours the service alarm should appear. In the case of repeated service alarms, Time is the interval at which the alarm should be repeated.
- Service text gives a more detailed description of what the service should include and which elements should be implemented.
- 7. Save with OK.

To modify an existing service alarm

To modify an existing service alarm:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Custom service
- 4. Select desired machine
- 5. First select the service to be changed and then click on Modify service
- 6. Fill in or select the following:

Mod	dify service	×	
D	escription	Monthly Service	
τ _ι	уре	Repetitive	
ті	ime (hours)	200	
S	ervice text	Clean inlet water filters Clean drain valve Check drive belt tension Check door seal Check	-
		OK Cancel	
			- fig.5788

- Description gives the name of the alarm, e.g. Monthly service.
- Type shows if the service alarm is to be issued once (Once) or repeated (Repetitive).
- Time (hours) indicates after how many operating hours the service alarm should be displayed. In the case of repeated service alarms, Time is the interval at which the alarm should be repeated.
- Service text gives a more detailed description of what the service should include and which element should be implemented.
- 7. Save with OK

Delete service alarm

To delete old service alarms:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Custom service
- 4. Select desired machine
- 5. Click on the service alarm to be deleted
- 6. Click on Delete service X or press the DEL key.

Save service alarm on a hard drive

To save service alarms onto a hard drive:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Custom service
- 4. Select desired machine
- 5. Click on Save service file 🗔. All service alarms for the selected machine will now be saved in a file.
- 6. Select a suitable place on a hard drive and name the file in File name. Click OK.

Retrieve service alarm saved on a hard drive

To retrieve service alarm saved on a hard drive:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Custom service
- 4. Select desired machine
- 5. Click on Open service file 🜽.
- 6. Select desired service alarm on hard drive and click on OK. The service alarms in chosen file will be added in the chosen machine.

4.1.9.2 Water

As the machines' water consumption is generally set at the factory, it may be necessary, via Water menu, to calibrate the values according to the prevailing water pressure in order to achieve the best possible statistics and cost calculations. The values that can be adjusted are to be found under the Water menu (only used in washers).

Machine Statistics Process Validation Settings View	Help			15:27
	····	4 9	🔺 🗇 🕅 🐻 🏞 🕼	
Custom		21/0		
System	0:11 W4180H	21/0		
Machines 🚮 Statistics 🖾 Process Validation	Process Programs	Servic	e 🔇 Errors 🏟 Settings	
🛚 🖬 🦠 🥝 🚳 🕨 🔢 🛛 🚳 View -	Custom Service 💧 W	/ater 👩 P	owder 💧 Liquid 😼 Energy	
dress Name Status				
0:2 🗊 W3180H 1 Idle				
0:3 🗐 T4250 Idle	Cold Water Flow	60	Litre/min	
0:4 👩 W3130H 1 Idle	Hot Water Flow	60	Litre/min	
0:11 🗊 W4180H 2 Idle	Hard Water Flow	0	Litre/min	
0:12 T4350 Anticrease [P02]	Water Tank1 Flow	0	Litre/min	
0:14 🎦 IC44832 LF Idle	Wates Tesl 2 Elem	0		
	Water Tarikz Flow	U		
	Water Tank3 Flow	0	Litre/min	
	Powder Flush Cold	0	Litre/min	
	rowder Haarreold			
	Powder Flush Hot	U	Litre/min	
achine name 4180H 2 I/O				
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To calibrate the values for Water consumption:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Water
- 4. Select desired machine
- 5. Adjust the value for each inlet valve.

Restore factory settings

Function for restoring the factory settings.

4.1.9.3 Powder

As the machines' water consumption is generally set at the factory, it may be necessary, via Powder menu, to calibrate the values according to the prevailing water pressure in order to achieve the best possible statistics and cost calculations. The values that can be adjusted are to be found under the Powder menu (only used in washers).

Machine Statistics Process Validation Settings View	Help			15:28
-		\$ 9	s 🌮 🔞 👩 🗔 🔯	
System	0.11 W/180H	21/0		
System	0.11 0041800	21/0		
Machines 🚮 Statistics 🖾 Process Validation	Process Programs	Service	Settings	
🛚 🖬 🦠 🥝 🥥 🕨 🔢 🛛 🛃 View -	Custom Service 💧 Wa	ter 🦪 Pow	rder 💧 Liquid 💅 Energy	
dress Name Status	_			
0:2 🛐 W3180H 1 Idle		FILE		
0:3 🗐 T4250 Idle	Powder Detergent 1	20	Litre/min	
0:4 👩 W3130H 1 Idle	Powder Detergent 2	20	Litre/min	
0:11 🛐 W4180H 2 Idle	Powder Detergent 3	5,50	Litre/min	
0:12 T4350 Anticrease [P02]	Powder Detergent 4	5,50	Litre/min	
0:14 🛅 IC44832 LF Idle	Powder Detergent 5	0	Litre/min	
	Powder Detergent 6	0	Litre/min	
	D. d. D. b 17			
	Powder Detergent 7	U		
ichine name 4180H 2 I/O				
achine free text				
howroom				
-				de Restore factory settir

To check or change the values for Powder detergent:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Powder
- 4. Select desired machine
- 5. Adjust the value for each inlet valve.

Restore factory settings

Function for restoring the factory settings.

4.1.9.4 Liquid

As the machines' consumption is generally set at the factory, it may be necessary, via Liquid menu, to calibrate the values according to the prevailing consumption. Check with your detergent supplier which values apply to the relevant machine/dispensing compartment and for each machine. Consumption data calculated from these values are used for statistics and cost calculations. The values that can be adjusted are to be found under the Liquid menu (only used in washers).

			3 .		6		
		1 2 1/0			(2000).		
System	0.11 W4180	121/0					
Machines 🔝 Statistics 🖾 Process Validation	Process Program	ns 📏 Ser	vice 😡 Err	ors 🧔 Settings			
🗃 🔜 % 🥝 🎯 🕨 🔢 🛛 🗃 🛛 View -	Custom Service	Water 📋	Powder	Liquid <u>F</u> Energy			
ddress Name Status				1. Contraction			
) 0:2 🧊 W3180H 1 Idle		-					
0:3 🗐 T4250 Idle	Liquid Detergent 1	150	ml/min	Liquid Detergent 9	0	ml/min	
0:4 🗊 W3130H 1 Idle	Liquid Detergent 2	150	ml/min	Liquid Detergent 10	0	ml/min	
0:11 词 W4180H 2 Idle	Liquid Detergent 3	150	ml/min	Liquid Detergent 11	0	ml/min	
0:12 T4350 Anticrease [P02]	Liquid Detergent 4	0	ml/min	Liquid Detergent 12	0	ml/min	
0:14 🛅 IC44832 LF Idle	i i d Datassa t C	0		Unid Dataset 12	0		
	Liquid Detergent 5	U	mi/min	Liquid Detergent 13	0	mi/min	
	Liquid Detergent 6	0	ml/min	Liquid Detergent 14	0	ml/min	
	Liquid Detergent 7	0	ml/min	Liquid Detergent 15	0	ml/min	
	Liquid Detergent 8	0	ml/min	Liquid Detergent 16	0	ml/min	
lachine name V4180H 2 I/O Jachine free text Showroom							
	W3130H 1 I/O - Service: N	Nonthly Ser	vice				🤞 Restore factory settir

To check or change the values for Liquid detergent:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Liquid
- 4. Select desired machine
- 5. State current values for each dispensing valve.

Restore factory settings

Function for restoring the factory settings.

4.1.9.5 Energy

As the machines' energy consumption is generally set at the factory, it may be necessary, via Energy menu, to calibrate the values according to the prevailing consumption. Under the Energy menu, it is possible to make changes if the machine has a different Heating output than the pre-set value. The specified value is what applies to electrically heated machines. Washing machine supplied with gas or steam heating usually have a heating output set at 0 kW. (Note: Dryers have specific heating constants depending on heating alternative). Consumption data calculated from these values are used for statistics and cost calculations.

Certus Management Information System	
e Machine Statistics Process Validation Settings View	/ Help 15:3
- System	I 0:11 W4180H 2 I/O
Machines 🚮 Statistics 🔯 Process Validation	📨 Process 🖬 Programs 🥎 Service 🧿 Errors 🧔 Settings
🗷 🖬 % 🥝 🚳 🕨 🔢 🦪 Viev	N - Custom Senire A Water Dowder A Linuid S Energy
ldress Name Status	
0:2 🧊 W3180H 1 Idle	
0:3 🗐 T4250 Idle	Heating effect 18 kW
0:4 🗊 W3130H 1 Idle	
0:11 🛐 W4180H 2 Idle	
0:12 🗐 T4350 Anticrease [P02]	
0:14 7 IC44832 LF Idle	
Achine name V4180H 2.1/O achine free text	
achine name V4180H 2.1/O achine free text Showroom	
lachine name <u>W4180H 2 I/O</u> lachine free text Showroom	Restore factory sett

To check or change the values for Energy consumption:

- 1. Click on Machine
- 2. Click on Settings
- 3. Click on Energy
- 4. Select desired machine
- 5. State current value for Heating effect.

Restore factory settings

Function for restoring the factory settings.
4.2 Statistics

Statistics could be accessed by simply pressing the Statistics button in the System window or by using any of the application main menus Statistics or View.

Statistics are separated in 12 different sub menus built up as a tree structure:

0	Run hours, shown by machine
	Run hours, shown by program
€	Idle time
	Machine usage
1.4	Total consumption
\diamond	Water
۵	Chemicals
₽	Energy
۹	Weight
1	Ironed pieces
10	Washing cycles
O	Drying cycles
	Ironed batches

Each menu tree could be expanded by simply clicking the + or – in front of the menu name or using the menu on right mouse button.

Statistics in each menu/submenu could be shown either in a graph or in a table, and it could be shown in a specific interval. Data could be exported to an Excel-file or printed.

- 1. Show statistics in interval
- 2. Show statistics as graph
- 3. Show statistics as table
- 4. Export to Excel
- 5. Print

1	2 3	4	5
			1
Certus Management Information System			
File Machine Statistics Process Validation Settings View He	elp	\backslash /	
	🖻 🌔 🕱 🔝 🍐	۵ 🖉 🔶 🖉 💧	
🜷 System	🌢 Water		
Machines Machines Statistics	Interval - M Show graph	Show table Export Prin	it
			fig.5785A

Interval

Statistics could be viewed totally (from installation date) or in an specific interval.

If interval button is inactivated, total statistics will be shown.

By activating the interval button, a selection menu will appear.

Certus Management Information System		
File Machine Statistics Process Validation Settings View	elp	16:07:30
	ha 🖲 🗱 🔝 🍐 🖉 🔶 🦅 🗃 🐻 🛅 🗎	
🜷 System	🛛 Run hours	
Machines Matistics Process Validation	Internal - Will Show graph I Show table Export Print	
P 🔗 Run hours	Month 2011 201 201	
E E COMI		2 12 12 P
		fig.5788A

In this menu, statistics could be shown for:

- a day
- a week
- a month
- a year or
- a Customized interval

It is also possible to view Next 😋 and Previous 😂 interval by pressing corresponding button.

A predefined interval menu is also available by clicking on the right hand side of the interval button.

Note that data is available only for the time defined under System/Database settings.

Customize statistics

In some cases it might be useful to hide main menus that are not interesting for the customer. It is possible to configure what menus should be enabled or not in the Customize application menu. This could be accessed from the System menu/ Customize application.

For more information, see System setup/Customize application.

Statistics for one machine/all machines in a network

To check statistics for all machines/one machine:

- 1. Click on Statistics.
- 2. Select the required type of statistic by clicking on the relevant icon.

Click on desired icon to see statistics for: All networks (A), All machines in a network (B) or a Single machine (C).



3. Select whether the statistics are to be displayed for all machines or one machine. By simply clicking the + or - by the menu name, or by using the menu that appears when you right-click with the mouse, each menu tree can be expanded. Click on a network name to view statistics for an entire network or on a machine name for statistics for one machine.

- 4. Select whether the statistics are to be displayed for a particular interval.
- 5. Select how the statistics should be displayed. There are two options:
- Show graph
- Show table

View information about each sub-group in statistics under the following headings.

4.2.1 Run hours

Run hours is the time measured when a machine is in process.

Run hours could be displayed Totally for entire network, for all programs or for a specific machine.

Run hours for ironers is displayed as Auto/Manual mode only, since programs don't exist.

Note: When the system is configured together with machines that already has been running, CMIS retrieves existing Run hour data from the machine. However CMIS has no possibility to relate this data to a specific program which means those Run hours will be labelled 'Unspecified'.

Click on desired icon to see statistics for: All networks (A), All machines in a network (B) or a Single machine (C).



4.2.2 Idle time

Idle time could be displayed for all machines in network or for a single machine.

Idle time is measured as the time when the machine is in idle position i.e. available for use, but not running. Idle time is related to Run hours and Other (Service etc) on the same graph to give correct relations.

For ironers: Other time is when ironer is not running i.e. Heating up, Ready, Cooling down error or Service mode. Statistics could be displayed in hours or as a percentage value.

Idle time is hidden as default. See system setup/customize application on how to make this menu visible.

Click on desired icon to see statistics for: All networks (A), All machines in a network (B) or a Single machine (C).

1. Display statistics in hours or percentage



4.2.3 Machine usage

Machine usage visualizes how efficient all machines in a network actually are used. The information is useful when attempting to organize the operations in a efficient way. The information also allows an easy compare or documentation of production key data on daily, weekly or monthly basis.

In a specific interval it is possible to review data such as:

- Available working hours
- Available machine hours
- Actual machine duty hours
- Machine overtime
- Machine utilization rate (%)

In graph it is also possible to review:

- · Working time versus Non working time
- · Machine operation time versus time waiting for operator or the machine
- Wasted time caused by Error alarms, service etc.

In each process some information like program number, error code number etc. are shown. Whether this information is in short form or full form depends how much the graph is zoomed up.

Zooming up is done by selecting a window (with left mouse button) from upper left corner to lower right corner, in graph. Zooming down is done opposite way or by pressing update button.

More detailed information about a process is also available by clicking on a process in the graph.

Machine usage could be displayed for all machines in a network or for a single machine.



4.2.4 Total consumption

Total consumption makes it possible to easily summarize and review the consumption data for all machines in a network, for a single machine or for one or several programs (programs only on washers and dryers) in a specific interval.

Total consumption makes it possible for an easy consumption follow up on daily, weekly or monthly basis, but also as a follow up after fine tuning the process.

Total consumption is split in two menus, one Consumption report menu for normal users and one menu for advanced users.

Both menus also offer the facility to easily calculate the cost for selected data.

4.2.4.1 Consumption report

Consumption report menu shows a summary of consumption data for the machines in selected interval. At the top of the menu it is possible to decide what processes should be shown. By deactivating the icon for washers / dryers / ironers, all data for these machines could easily be excluded.

Calculate cost is done in two steps:

- Select Default template to be used (contains all formulas and local prices for cost calculation)
- Press Calculate cost-button

Please note that all constant values for consumption parameters need to be set correctly before calculation total consumption.

A constant value set to "0" will result in zero for actual consumption parameter (please refer to operating manual "Software description and settings / Machine / Machine settings" – for more information in setting constant values).

- 1. Shown processes
- 2. Shown processes
- 3. Template for Cost calculation
- 4. Calculate cost

🛓 🖀 🔹 🔹 📓 🕘 🗐 🖉	0 📾 🌒 🚟 🖾 🌢 🖉 🔺	2 👩 🦻 🗖 🗎		
💐 System	Total consumption			
Machines 🔏 Statistics 🔯 Process Validation	Consumption report Advanced	ishers Dryers Ironers Print	Setup working days	
₽ 🧭 Run hours ₽ 🎝 Idle time	Time resolution Year Week Value 2011	Week		
🗈 🧱 Machine usage	Consumption report			
- 🔣 Total consumption	Selected period: Week 35 -	2011		
e 💧 Water	Washers	Current period	Previous period	
Forergy Weight Veight Void Stress Orying cycles Orying cycles Toning batches	Number of washers: Number of washing cycles: Run hours: Idle time: Overtime: Energy consumption: Water consumption: Liquid detergent consumption: Weight (only with IWS):	3 42 55 Hours 26 Minutes 98 Hours 24 Minutes 0 Hours 3 Minutes 136,7 kWh 13,7 m ² 0.0 liters 0 Kg	3 44 57 Hours 4 Minutes 95 Hours 48 Minutes 0 Hours 2 Minutes 149,9 kWh 14,7 m ² 0 liters 0 Kg	
	Dryers	Current period	Previous period	
	Number of drying cycles: Number of drying cycles: Run hours: Idle time: Overtime: Energy consumption: Ironers	30 21 Hours 1 Minutes 79 Hours 8 Minutes 0 Hours 0 Minutes 82,8 kWh Current period	23 17 Hours 43 Minutes 32 Hours 55 Minutes 0 Hours 0 Minutes 69,9 kWh Previous period	
	Number of ironers: Number of ironing batches: Run hours: Idle time: Overtime: Energy consumption: Total number of pieces:	0 0 0 Hours 0 Minutes 0 Hours 0 Minutes 0 Hours 0 Minutes 0 kWh 0	0 0 0 Hours 0 Minutes 0 Hours 0 Minutes 0 Hours 0 Minutes 0 kWh 0	
	Cost calculation Cost calculation template Default ELS Te	mplate /	• / 9	Calculate cost
	Entire system	From: 201	1-08-29 06:32:32 To: 2011	-09-02 17:19:57
	0 0:12 T4350 Ended dry program: P02 - READY TO PUT	AVAY (100% Cotton /Poly cotton mixtur	e / Terry)	

4.2.4.2 Advanced

Advanced menu is intended for more advanced users who need more flexibility for cost calculations. Advanced menu does not have any preview of consumption data, but is designed to make it possible for the user to select those processes he wants for the cost calculation.

This selection is fully flexible and could be done for all available processes down to a single specific process.

Similar to Consumption report it is possible to decide what processes should be shown by activating/deactivating the icon for washers/dryers/ironers. Same possibility also exists in tree view, where all checked processes will be included in the cost calculations.

Calculate cost is done in two steps:

- · Select Default template to be used (contains all formulas and local prices for cost calculation)
- Press Calculate cost-button

Please note that all constant values for consumption parameters need to be set correctly before calculation total consumption.

A constant value set to "0" will result in zero for actual consumption parameter (please refer to operating manual "Software description and settings / Machine / Machine settings" – for more information in setting constant values).

- 1. Advanced menu
- 2. Shown processes
- 3. Selection of processes
- 4. Template for Cost calculation
- 5. Calculate cost



4.2.5 Water

Statistics for Water consumption could be displayed for all machines in network, for a single machine or for a specific program for a specific machine (only washing machines).

Water consumption in CMIS is measured as the time each water valve inlet is opened. Water consumption in time is then calculated by using a factory made constant table.

The constants in the constant table are valid for a normal installation with normal water pressure (approx. 300 kPa). If a higher precision is required it is necessary to calibrate the water flow and adjust the constant table. For more information about this see Machine settings/Water consumption.

Statistics for Water consumption could be displayed in minutes or Litres.

Water consumption is hidden as default. See System setup/customize application on how to make this menu visible. Click on desired icon to see statistics for:

- 1. All networks
- 2. All machines in a network
- 3. Single machine
- 4. Specific program
- 5. Display statistics in minutes or litres

Certus Management Information System	
File Machine Statistics Process Validation Settings View Help	16:25:53
System 💧 Water	
Machines 🚮 Statistics 🔛 Process Validation Interval - 🔛 Show graph 📰 Show table Export Print	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 2 Image: COM1 Image: COM1 Image: COM1 Image: COM1 Image: COM1 19 19 19 19 19 19 19 19 19 19 19 10 11 12 13 14 15 16 17 18 19 20 2 19 19 10 11 12 13 14 15 16 17 18 19 20 2 16 17 18 19 20 2 14 15 16 17 18 19 20 2 16 14 14 15 16 17 18 19 20 2 14 15 16 17 18 19 20 2 16 16 16	1 22
H @ 2 - W3180H 1 HO ⊕ @ 4 - W3130H 1 HO Hot Water 3,0	
Im 001 - PULL OVER WOOL Im 002 - 2.SUITS Im 002 - 2.SUITS Hard Water	
Water Tank 1	E
Water Tank 2	
M OOD State Water Tank 3	
Image: Weight of the second	
- H 202 - 2.SUITS MANUAL Powder Det#3 - 5,1	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 2	1 22 -
H 980 - BEDLINEN 90C Details H 989 - IMP 35°FACK2 Total water volume: 1457,8 liters H 991 - NORMAL 95°C Total water value open time: 32 minutes	•
HI 992 - NORMAL 60°C	
- IM 993 - NORMAL 40°C - System/COM1/0:11 W4180H 2 I/O/992 - NORMAL 60 From: 2011-10-13 09:23:18 To: 2011-10-13 1	1:57:00
5	
	fig.57

4.2.6 Chemicals

Statistics for Chemical consumption could be displayed for all machines in network, for a single machine or for a specific program for a specific machine (only washing machines).

Chemical consumption in CMIS is measured as the time each chemical valve inlet is opened and the Chemical Consumption in millilitres is then calculated by using a constant table.

Please note that all factory values for the Chemical Constant table normally is set to Zero since those values are local and depend on each installation.

To have Chemical consumption in millilitres it is necessary to fit valid values to the Liquid detergent constant table. For more information about this see Machine settings/Liquid detergent.

Statistics for Chemical consumption could be displayed in minutes or Millilitre. Chemicals is hidden as default. See System setup/customize application on how to make this menu visible.

Click on desired icon to see statistics for:

- 1. All networks
- 2. All machines in a network
- 3. Single machine
- 4. Specific program
- 5. Display statistics in minutes or litres



4.2.7 Energy

Statistics for Energy consumption could be displayed for all machines in network or for a single machine.

Energy consumption in CMIS is measured as the time each heating relay is activated and the energy consumption in kWh is then calculated by using a constant table.

Please note that all factory values in the constant table are set for electrical heated machines. Installation with machines heated with steam or gas is recommended to set all constant values to zero and then make a manual calculation using the heating time available.

A machine that is only available with a heating system for steam or gas is normally supplied with a factory made constant table set to zero.

For more information about this see Machine settings/Energy consumption.

Statistics for Energy consumption could be displayed in minutes or in kWh.

Energy consumption is hidden as default. See System setup/customize application on how to make this menu visible. Click on desired icon to see statistics for:

- 1. All networks
- 2. All machines in a network
- 3. Single machine
- 4. Display statistics in minutes or kWh



4.2.8 Weight

Weight statistics is available on all Clarus Control and Compass Pro washers with IWS (Internal Weight System), and on Compass Pro washers with AWS (Automatic Weight System). (firmware 8.14 and above).

For IWS system the weight is read out at program start. For AWS system, the weight is read after a completed weighing sequence. If AWS is not available or disabled, or if weighing sequence is aborted, the weight will be considered to be the machine's max load.

Statistics for weight could be displayed for the entire network or per program for a single machine.

Note that it is important to Tare the machine before start to have the correct weight.

Weight is hidden as default. See System setup/customize application on how to make this menu visible. Click on desired icon to see statistics for:

1. All networks

- 2. All machines in a network
- 3. Single machine

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File Machine Statistics Process Validation Settings View	Help	09:58
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	System/COM1/0:11 W4180H 2 I/O 📑 From: 2011-08-22 10:28:55 To: 2011-10-14	14:11:50
0:2 0 0 3 0 0 3 0 0 0	0:4 W3130H 1 I/O Started wash program: 013 - KULÖRT 60 C.	
		£

4.2.9 Ironed pieces

Statistics for ironed pieces could be displayed totally for entire network, for all machines in network or for a single machine.

Ironed pieces is hidden as default. See System setup/customize application on how to make this menu visible. Click on desired icon to see statistics for:

- 1. All networks
- 2. All machines in a network
- 3. Single machine



4.2.10 Washing cycles

Washing cycles provide additional information about run washing cycles.

Statistics could be displayed for the total network or for a single machine.

Filter PV will show only process validated cycles (A).

Shortcut to show cycle in process validation window (B).

Click on desired icon to see statistics for:

- 1. All networks
- 2. All machines in a network
- 3. Single machine

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B· 3 4 - W3130H 1 I/O B· 3 11 - W4180H 2 I/O B· 3 11 - W4180H 2 I/O B· 3 11 - W4180H 2 I/O B· 3 0:2 W3180H H· 1012 - OVERALL 2011-09-29 13:02:40 01:16:01 [2584] - 61 °C 16 °C B· 3 0:2 W3180H H· 013 - KUCRT 6 2011-09-29 08:53:14 01:12:16 [7884] - 61 °C 16 °C 17 °C B· 3 0:2 W3180H H· 013 - KUCRT 6 2011-09-29 08:53:14 01:12:16 [7884] - 61 °C 16 °C 17 °C B· 3 0:2 W3180H H· 013 - KUCRT 6 2011-09-29 08:53:14 01:12:16 [7884] - 61 °C 16 °C 17 °C B· 3 0:2 W3180H H· 013 - KUCRT 6 2011-09-29 08:53:14 01:10:13 [2380] - 61 °C 16 °C 16 °C B· 3 0:2 W3180H H· 013 - KUCRT 6 2011-09-29 08:54 01:04:49 [2493] - 61 °C 16 °C B· 4 0:2 W3180H H· 013 - KUCRT 6 2011-09-28 08:04:20 02:04:42 [2961]	2 - W3180H 1 I/O	📀 📄 🧊 0:2 W3180H	H 014 - SPORTKL	2011-09-30 08:35:17	01:03:06	[9218]	- 4	1 °C	16 ℃
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Image: System/COM1/0:2 W3180H 1./ Image: System/COM1/0:2 W3180H 1./ Image: System/COM1/0:2 W3180H 1./ Image: System/Com1/0:12 W3180H 1./ Image: System/Com		📀 📄 🗊 0:2 W3180H	H 013 - KULÖRT 6	2011-09-28 10:06:40	01:04:49	[2493]	- 6	51 ℃	18 °C
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		0-41001000 1 TEO Charles 1	012 108 000 0						

Information in first column gives quick information if cycle is:

0	Completed OK
3	Not completed
	Paused
	Rapid advanced
	Aborted

Second column gives information if a cycle is Process validated:

Process validated

No ICON in the second column means that Process validation is not activated in the Run settings.

Following columns gives basic data as machine No, program No, time at program start, Batch ID, RMC (Residual Moisture Content), max temp, min temp etc. Last column gives a more detailed description of the wash progress, error description etc.

Data in each column could be sorted ascending by clicking each column headline i.e. sorted by machine, program, time at program start, Batch ID etc.

A filtering function to filter out those cycles that is process validated is also available in the menu. Press the button "Process validated" in the upper part of the menu.

A wash is completed OK if:

- No errors has occurred during the wash •
- Wash is not rapid advanced or aborted

• Wash has not been paused for longer than 10 minutes (Long pause).

When a specific wash in the Washes window is selected right mouse click gives two possibilities:

- If wash is Process validated OK it gives a shortcut to the same wash in the process validation window. (Same ٠ shortcut is available by activating the button in the washes menu).
- For all other washes it is possible to delete selected wash. (Same possibility is available by pressing DEL).

A wash that is process validated OK could not be erased in the Washes window but need to be erased in the Process validation window.

For more information see Process validation.

4.2.11 Drying cycles

Drying cycle provide additional information about run drying cycles.

Statistics could be displayed for the total network or for a single machine.

Filter PV will show only process validated cycles (A).

Shortcut to show cycle in process validation window (B).

Click on desired icon to see statistics for:

- 1. All networks
- 2. All machines in a network
- 3. Single machine

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\$ * * · · § · · · · · · · · · · · · · · ·	2 🙃 🖲 🗮 🖪 ᠔	1 6 🖉 🔹 🌶	/ 👩 👩 🔄 🔍					
💺 System	B Drying cycles							
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🗈 😴 Machine usage	PV Machine	Program	Time at program start	Duration	Batch ID	Max in	Min in t	Max
Total consumption	Image:	MANUAL TIME	2011-08-31 14:11:34	00:54:44	[0388]	124 °C	24 °C	71 9
🗈 🍐 Water	3 🙀 🗐 0:3 T4250	MANUAL TIME	2011-08-31 13:45:17	00:07:16	[0386]	104 °C	19 °C	40 9
🖲 🍐 Chemicals	Image:	MANUAL TIME	2011-08-31 11:37:55	01:21:43	[0385]	115 °C	23 °C	71 9
H- S Energy	D 🔛 🗐 0:3 T4250	MANUAL TIME	2011-08-31 10:08:10	01:19:31	[0383]	126 °C	23 °C	70 9
H Weight	📀 🔛 🗐 0:3 T4250	MANUAL TIME	2011-08-31 09:27:59	00:27:48	[0382]	121 °C	22 °C	70 9
The second sinces	Image:	MANUAL TIME	2011-08-31 07:27:57	01:50:42	[0381]	124 °C	15 °C	70 9
a foned pieces	🔕 🙀 🗐 0:3 T4250	MANUAL TIME	2011-08-30 14:22:22	00:04:07	[0380]	101 °C	17 °C	44 9
W wasning cycles	Image:	HI MANUAL TIME	2011-08-30 11:49:15	01:39:56	[0379]	122 °C	23 °C	61 9
Drying cycles	Image:	H MANUAL TIME	2011-08-30 10:35:48	01:11:53	[0378]	128 °C	23 °C	70 9
COM1	Image:	H MANUAL TIME	2011-08-30 09:54:20	00:41:24	[0377]	129 °C	24 °C	70 9
3 - T4250	🔇 🙀 🗐 0:3 T4250	H MANUAL TIME	2011-08-30 09:47:50	00:05:22	[0376]	109 °C	19 °C	40 9
12 - T4350	🔇 🙀 🗐 0:3 T4250	H MANUAL TIME	2011-08-30 08:47:18	00:06:32	[0375]	113 °C	25 ℃	41 9
😐 🛅 Ironing batches	📀 📄 🗐 0:3 T4250	H MANUAL TIME	2011-08-30 07:50:59	00:39:30	[0374]	125 °C	23 ℃	70 °
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	🥥 📄 🗐 0:3 T4250	H MANUAL TIME	2011-08-29 13:51:10	01:12:21	[0372]	122 °C	17 ℃	60 9
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	3 🙀 🗐 0:3 T4250	H MANUAL TIME	2011-08-29 10:13:38	00:11:35	[0370]	115 ℃	31 °C	70 9
	D 📄 🗐 0:3 T4250	H MANUAL TIME	2011-08-29 09:38:35	00:34:36	[0368]	115 ℃	24 °C	71 9
	Image:	H MANUAL TIME	2011-08-29 08:44:43	00:51:00	[0367]	117 ℃	25 ℃	70 °
	📀 📄 🗐 0:3 T4250	H MANUAL TIME	2011-08-29 08:03:06	00:34:01	[0366]	114 °C	25 ℃	70 9
	Image:	H MANUAL TIME	2011-08-29 07:32:19	00:29:50	[0365]	116 °C	14 ℃	61 9
	O:3 T4250	HH MANUAL TIME	2011-08-25 15:10:56	01:07:19	[0364]	112 °C	20 °C	61 9
								1
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	Total 67 drying cyc	les						
	System/COM1/0:3 T	4250	From: 20	011-08-12 08	48:16	To: 201	1-08-31 1	4:11:34
02 00 02 00 02 00 00	0-4 W2120H 1 TRO Elected und	012 10 1007	(AC					

Information in first column gives quick information if cycle is:



Second column gives information if a cycle is Process validated:



Process validated

No ICON in the second column means that Process validation is not activated in the Run settings.

Following columns gives basic data as machine No, program No, time at program start, Batch ID, Max. in temp, Min in temp, Max out temp, Min out temp, Start RMC, End RMC (RMC = Residual Moisture Content). Last column gives a more detailed description of the drying progress, error description etc.

Data in each column could be sorted ascending by clicking each column headline i.e. sorted by machine, program, time at program start, Batch ID etc.

A filtering function to filter out those cycles that is process validated is also available in the menu. Press the button "Process validated" in the upper part of the menu.

A drying cycle is completed OK if:

· No errors has occurred during the cycle

When a specific drying cycle is selected right mouse click gives two possibilities:

- If drying cycle is Process validated OK it gives a shortcut to the same cycle in the process validation window. (Same shortcut is available by activating the button in the menu).
- For all other drying cycles it is possible to delete selected cycle. (Same possibility is available by pressing DEL).

A cycle that is process validated OK could not be erased in the drying cycle window but need to be erased in the Process validation window. For more information see Process validation.

4.2.12 Ironing batches

Ironing batches provides additional information about run ironing batches.

Statistics could be displayed for the total network or for a single machine.

Filter PV will show only process validated cycles (A).

Shortcut to show cycle in process validation window (B).

Click on desired icon to see statistics for:

- 1. All networks
- 2. All machines in a network
- 3. Single machine



Information in first column gives quick information if cycle is:

0
3

Not completed and/or blocking error

Second column gives information if a cycle is Process validated:

1 M	
100	

Process validated

Completed OK

No icon in the second column means that Process validation is not activated in the Run settings.

Following columns gives basic data as Machine No, Run mode, Start time, Duration, Batch Id, Pieces and Energy. Last column gives a more detailed description of the Ironing batch, error description etc.

Data in each column could be sorted ascending by clicking each column headline i.e. sorted by Machine, Run mode, Start time etc.

A filtering function to sort out those batches that is process validated is also available in the menu. Press button "Process validated" in the upper part of the menu.

An ironing batch is completed OK if:

• No blocking error has occurred during ironing batch (i.e. errors codes higher than 127).

When a specific ironing batch is selected right mouse gives two possibilities:

- If ironing batch is process validated OK it gives a shortcut to the same ironing batch in process validation window (same shortcut is available by activating the button in ironing batch menu.
- For all other ironing batches it is possible to delete selected ironing batch. (Same possibility is available by pressing DEL).

An ironing batch that is process validated OK can not be erased in the ironing batches window but need to be erased in process validation window. For more information see process validation.

4.3 Process validation

Process validation is a way to automatically verify that a cycle has ended without any errors and has fulfilled the cycle as intended (programmed).

- Select cycles to be displayed: All time – all cycles Interval – select interval Search – Updates window
- 2. Possibility to print receipt
- 3. Possibility to export to Excel-sheet
- 4. Temperature chart for the process
- 5. Machine information
- 6. Search for a special Batch ID
- 7. Select the machines for which cycles are to be displayed
- 8. Select the programs for which cycles are to be displayed
- 9. Select desired cycle to view process information
- 10. Temperature data in table form
- 11. RMC value (Residual Moisture Content). Only washing machines with IWS (Internal Weight System).
- 12. Process verification data for selected cycle



Process validation could be set up in several different ways/levels. for All set up possibilities for Process validation are described in System setup.

- It could be set up for manually input on Batch ID on machine or automatically generated by washing machine (only washers).
- Monitoring wash (no errors/no rapid advance/no long pause).
- Monitoring drying cycle (no errors).
- Monitoring ironing batches (no blocking errors).
- · Health care settings washer, i.e verifying minimum temperature and minimum time for a wash cycle.
- Health care settings dryer, i.e RMC or minimum temperature and minimum time for a drying cycle.
- Health care settings ironer, i.e. RMC out value.
- Automatically print receipt when process done.
- Print receipt on process validation success.
- Print receipt on process validation error.
- For a washing machine with IWS (Internal Weighting System) RMC value.
- For a dryer with RMC, actual RMC values.

Possibilities to manually print process validation receipt but also to export process validation data to Excel sheet. Note that an export to an excel sheet will use two worksheets in the same document. One for process information and one for cycle progress.

Search for a process-verified cycle

Using the process verification buttons, it is possible to select which process-validated cycles are to be displayed. Cycles can be selected as follows:

- Cycles carried out during a particular time interval.
- Cycles carried out on a particular machine.
- Cycles carried out with a special program No.
- Cycles with a specific Batch ID.

It is also possible to combine these variants, e.g. cycles on a particular machine during a particular time interval.

- 1. Search Update search with specified criteria
- 2. Select during which time interval cycles are to be displayed:
 - All time all cycles

Interval – Select interval

- 3. Select the machine for which cycles are to be displayed
- 4. Select the program for which cycles are to be displayed

Certus Management Information System	
File Machine Statistics Process Validation Settings View Help	
🖫 System 🛛 🛛 Pr	
Machines 🌆 Statistics 📓 Process Validation Prim	
Print receipts All time Interval Search	
Filter	
3 Batch ID *	
4 0:2 W3180H 1 I/O • 7	
All programs	
9.	fig 58014
	fig.5801A

To select which process-validated cycles are to be displayed

- 1. Click on Process validation.
- 2. Search for cycles within a desired time interval using All time or Interval.

Certus	Management Information System		
File Mad	hine Statistics Process Validation	Settings View He	lp
S			a (
📮 Sys	tem		Pro
Mact	ines 🚮 Statistics 🔯 Process Va	lidation	erint r
Print rec Interva	eipts All time Interval - Sear	ch	100 95
First	2011-09-17	10:22:16	90
Last	2011-10-17	10:22:16	80
			75

3. Search for cycles with a specific Batch ID. Select Batch ID. When searching with Batch ID, standard search concepts such as the wild cards "*" and "?" may be used.

Square brackets indicate that Batch ID has been created by the machine. Without square brackets, the value has been entered. Square brackets do not need to be indicated when searching.

Print receipts All time Interval Search Filter Batch ID *	100 91 93 83
	fig.5801B

4. Search for cycles on a specific machine.

Filter Batch ID * All machines All machines 0:2 W3180H 1 I/O 0:3 T4250 0:4 W3130H 1 I/O 0:4 W3130H 1 I/O 0:11 W4180H 2 I/O
Image: Second state Image: Second state
5 🗇 0:14 IC44832 LF

5. Search for cycles on a specific program.

Print receipts All time Interval Search	
Filter	
Batch ID *	
0:2 W3180H 1 I/O	
🔊 All programs	
🔊 🗗 All programs	
III 012 - OVERALLER 60 C.	
🔇 🗰 013 - KULÖRT 60 C.	A
D14 - SPORTKLÄDER 40	
D15 - TRASMATTOR 40	
	fig.5804A

6. Click on desired cycle to show process verification data for one cycle.



Export data to an Exel file

To export data from process validation to an Excel file:

- 1. Click on Process validation.
- 2. Select cycle according to "Search for a process-verified cycle".
- 3. Click on export to Excel file.
- 4. Select where the file is to be saved. Note that an export to an excel sheet will use two worksheets in the same document. One for data and one for progress.

Print receipt

To print from process verification data:

- 1. Click on Process validation.
- 2. Select cycle according to "Search for a process-verified cycle".
- 3. Click on print receipt.

4.4 System setup

Under system setup is a description of all settings which can be made for CMIS. The description is divided into:

- Networks Settings for network and machines.
- Main settings Settings for receipt, temperature and sound.
- Database settings Settings for database.
- Health care settings Parameter settings for min. temp and min. time. RMC etc.
- Language settings.
- Customize application Menu settings for statistics.

Network settings

Network settings can be adjusted at three levels:

- General network settings applies to all the networks in the system.
- Network settings applies to the selected network.
- Machine settings applies to the selected machine.

Click to make an adjustment to:

- 1. System
- 2. Network
- 3. Machine

System	Settings for machine: 0:11 W4180H 2 I/O
× Delete	🕨 📕 🗐 Scan machine 🔤 Change definition 🗐 📰 Change adre
System □ 0 - COM1 □ 0:2 W3180H 1 I/O □ 0:3 T4250 □ 0:4 W3130H 1 I/O □ 0:11 W4180H 2 I/O □ 0:12 T4350 □ 0:14 IC44832 LF	Machine settings Address 11 Change addr Name W4180H 2 I/O Description Showroom
	Model definition W3180H/W4180H 2 I/O Process settings Print reciept on process done
	Process validate
	Use system setting

Depending on which level is selected, there are different shortcut keys available.

	Add new network
•	Add machine to network
$\boldsymbol{\times}$	Delete network/machine
	Activate network/machine
	Deactivate network/machine
-	Scan network
Į p	Scan machine

Add new network

To add a new network:

1. Configure all machines to be included in the network with a unique machine address (for information, see installation instructions). The machines must have the power switched on and be in the main menu.

2. Click on Network settings (1).

ile Machine Statistics Process Validation Settings View He	lp
🐜 🖀 🔹 👻 🔯 🖻 🗖 🖉 🗐 🤗	🖻 🌔 🚟 🖾 🌢 🌢
System	🗐 0:11 W4180H 2 I/
Machines 🌇 Statistics 📄 Process Validation	Process Programs 🛸 S
📧 🖬 💊 🗿 🔍 🕨 🔢 🛛 🗃 View -	Reset trip counter
Address Name Status	Run hour information and unbal
0:2 3 W3180H 1 Idle	Total out time hours
• 0:3 🗐 T4250 Idle	Total trip run time hours
0.4 JW2120H 1 Idle	Total number of unbalancer

- 3. Click on System 🖳
- 4. Click on Add network 🗚

This menu provides several options:

- **Name** Gives the possibility to give the network a suitable name. The suggested name "Network" is valid and could be used if no other name could be found.
- **Connection** Select which serial port this network should use on your PC. Default is Com 1, but other serial ports could be used.
- Scan network for machines Check this box to automatic scan a network when OK button is pressed. If box is not checked the network will be created but no machines will be added.
- Scan method Select whether you want to scan the whole network (valid numbers 1-127), whole network or part of network until a desired number of machines are found.

5. Click on OK after all settings have been adjusted. CMIS automatically retrieves all necessary information from the machines.

Add machine to network

Add machine is used to add a machine to an existing network. This function is suitable to use if another machine has been added to a network. To add a new machine to a network:

1. Configure the machine to be included in the network with a unique machine address (for information, see installation instructions).

The machine must have the power switched on and be in the main menu.

- 2. Click on Network settings 🏪.
- 3. Select the network to which you want to add a machine.
- 4. Click on Add machine 1.

Process settings Process settings Start settings (only applied for washers) Always allow start Validation settings Process validate
Validation settings Process validate

This menu provides several options:

• Address (1..127):

Enter the address of the new machine here.

Note! If an existing address is entered or no machine responds to the address given, the following error message will appear.

In this case, check the machine configuration under point 1.

Warning	
Address not availble or already in use	
ОК	
	fig.5820

The name is automatically retrieved from the machine. If there is an available driver for the machine, a pre-selected name is given. The name can be changed at a later date if you want. If "Noname" appears, no driver has been found. Contact the supplier for assistance.

Network:

The network to which the machine is to be added.

Print receipt on PV wash done

Check this box if you want that a receipt should be automatically printed. For more information, see System setup/ Networks/ Print settings.

Process settings

Start Settings (only applied for washers)

This setting sets the machine's starting conditions.

- Start always allowed Default at installation. Batch-ID is generated automatically by machine.
- Start not allowed Machine is out of operation and can't be started.
- Demand Batch-ID before start An extra menu will turn-up in machine when start button is pressed. This menu will make it possible to put a 4-digit number to the wash, for traceability.

Validation Settings

Settings for whether the machine's cycles are to be process validated or not.

- Normal wash Machine runs normally without logging process validation data.
- Process validate all cycles CMIS records necessary data being able to process validate all cycles in machine.

More record means larger databases which means this only should be activated if it is interesting and useful for the installation.

Delete network/Machine

Delete is used for deleting a network or a machine.

To delete a machine/network:

- 1. Click on Network settings 🟪.
- 2. Select the network or machine to be deleted.
- 3. Click on Delete X and confirm in the Delete network or Delete machine box that you want to delete.

Activate/Deactivate network

With Activate network and Deactivate network you can activate or deactivate a network. If a network is deactivated, CMIS ceases to retrieve information from the network. Consequently, no statistics will be saved.

To activate or deactivate a network.

- 1. Click on Network settings 🏝.
- 2. Select the network to be activated or deactivated.
- 3. Click on Activate network ▶ or Deactivate network ■.

A deactivated network and its machines will be crossed out in the system configuration and the machines will be greyed in Machine information.

Activate/Deactivate machine

With Activate machine and Deactivate machine you can activate or deactivate a machine in a network. If a machine is deactivated, CMIS ceases to retrieve information from it. Consequently, no statistics will be saved. It is appropriate to deactivate a machine if e.g. it is to undergo an extended service, as it will not then affect the network.

To activate or deactivate a machine.

- 1. Click on Network settings 3
- 2. Click on the network containing the relevant machine.
- 3. Select the machine to be activated or deactivated.
- Click on Activate machine or Deactivate machine

66

Name:

Scan network

This is a function for updating information from the machines in a network. This function is used if:

- Several machines have been replaced or more machines have been added.
- Changes have been made to several machines (e.g. equipped with an additional I/O card). It is also possible to
 use Scan machine.
- Statistics from several machines appear to be incorrect.
- Error message 'MIS communication error' is displayed after changes have been made to the machines.
- To update information from the machines in a network:
- 1. Configure all machines to be included in the network with a unique machine address. The machines must have the power switched on and be in the main menu.
- 2. Click on Network settings 🟪.
- 3. Click on relevant network
- 4. Click on Scan network 💐 CMIS automatically retrieves all necessary information from the machines.

Scan machine

This is a function for updating information from a machine. This function is used if:

- Changes have been made to the machine (e.g. equipped with an additional I/O card).
- The statistics from the machine appear to be incorrect.
- The error message 'MIS communication error' is displayed repeatedly on the machine.
- A machine has been replaced and the new machine has been given the same machine address as the old one.

To update the information from a machine:

- 1. Ensure that the machine has the power switched on and is in the main menu.
- 2. Click in CMIS on Network settings
- 3. Click on the relevant machine
- 4. Click on Scan machine 🔟. CMIS automatically retrieves all necessary information from the machine.

Select machine configuration manually

In case that CMIS can't match configuration automatically for a machine, you will have to select configuration manually. Select the configuration you know is closest to the machine you are installing or contact supplier for help.

Note!

Model for dryers is normally programmed in parameter 4.10. If this is set to "0", CMIS will alert for this. Please see Installation manual how to set up correct model No. in Selecta Control. Model for ironers is normally programmed in service option, "No Address CMIS". Please see Installation manual how to set up correct model No. in electronic control panel for ironer.

Current configuration					
W3180H/W4180H 2 I/O 0/34	4/2 2007-09-03 11:5	51:59			
🏚 Available factory configurati	ons				
lame	Туре	Manufacturer	Model	I/O Boards	Time
) 🗊 FLE66 1 I/O	Washer	ELS	WE66MP	1	2004-04-29 19:30:11
) 🗊 FLE125 1 I/O	Washer	ELS	FLE125	1	2004-04-29 19:30:16
) 词 FLE125 2 I/O	Washer	ELS	FLE125	2	2004-04-29 19:30:20
) 🗐 FLE125 3 I/O	Washer	ELS	FLE125	3	2004-04-29 19:30:22
) 词 FLE175 1 I/O	Washer	ELS	FLE175	1	2004-04-29 19:30:25
FLE175 2 I/O	Washer	ELS	FLE175	2	2004-04-29 19:30:26
) 🗐 FLE175 3 I/O	Washer	ELS	FLE175	3	2004-04-29 19:30:28
) 🗐 FLE225 1 I/O	Washer	ELS	FLE225	1	2004-04-29 19:30:29
) 🗐 FLE225 2 I/O	Washer	ELS	FLE225	2	2004-04-29 19:30:30
) 🗐 FLE225 3 I/O	Washer	ELS	FLE225	3	2004-04-29 19:30:32
) 🗐 FLE400 1 I/O	Washer	ELS	FLE400	1	2004-04-29 19:30:33
) 🗐 FLE400 2 I/O	Washer	ELS	FLE400	2	2004-04-29 19:30:34
	Wacher	FIS	FI E400	2	2004-04-20 10-30-35

Note!

Selecting an incorrect configuration will cause CMIS to work improperly.

4.4.1 Network settings — System level

Network settings on System level apply as default values for all networks and machines in the system. Note that start settings and settings for process verification can also be adjusted on machines or at program level. These settings then apply in preference to settings under General system settings. For further information, see under Allow start settings and Process validate.

To adjust general settings for the network and machines:

- 1. Click on Network settings 🏪.
- 2. Click on System 🖳
- 3. Make the required changes under:
 - System settings
 - Process settings
 - Allow start settings
 - · Process validate

System	🕎 System settings
📲 Add network	System settings
 ➡ System ➡ System ➡ System ➡ O - COM1 ■ O - COM1 <l< td=""><td> Fetch weight if scale exist in machine Remove machine errors on reset Popup dialog on machine service Service reminder after 20 run hours Process settings Print receipt on process validation success Print receipt on process validation error Include pieces list for ironer on print receipt Create an XML file on process done Store XML files for 100 days </td></l<>	 Fetch weight if scale exist in machine Remove machine errors on reset Popup dialog on machine service Service reminder after 20 run hours Process settings Print receipt on process validation success Print receipt on process validation error Include pieces list for ironer on print receipt Create an XML file on process done Store XML files for 100 days
	Always allow start
	Process validate
	Process validate 🔹

4.4.1.1 System settings

Fetch weight if scale exists on machine

Normally CMIS updates data from the IWS system (Internal Weight System) if this system exists on the machine. This box could be unchecked if update of weight is not needed. This box is checked as default (only washers).

Remove machine errors on reset

An error code could normally be removed on the machine and if this box is checked it will be removed in CMIS as well. If it is requested to keep the alarm on CMIS even if it is removed on machine this box should be unchecked. This box is checked as default.

Pop-up dialog on machine service

A service alarm will pop up as a service menu in CMIS. If this function is not wanted and should be disabled - this box should be unchecked. This box is checked as default.

Service reminder XXX Run hours

If this box is checked a service reminder will pop up after the given number of hours if a service is not done. This box is unchecked as default.

4.4.1.2 Process settings

Print receipt on process validation success/Print receipt on process validation error.

It is possible to decide whether a receipt should be printed on Process validation success or Process validation error by checking the correct box. Default is Print receipt on validation success.

This function requires Process validation to be defined and a printer to be selected. Those options are defined for each machine in Machine settings, see System setup/Networks/Machine settings.

Create an XML file on process done

It is possible to decide whether each process should be stored to an external file (XML-file) or not. It is also possible to decide how many days an XML-file should be stored.

The function is used when a cycle should be analysed after the cycle has ended.

The XML-files could be viewed in the included Process viewer or with the stand alone Process viewer.

4.4.1.3 Allow start settings

This setting is valid for the whole system. Note that machine specific settings also could be made on a lower level – the machine level or in some cases even in the program level. Settings made on machine or program level has higher priority.

Always deny start

Puts the machine out of operation

Demand Batch ID before start

Adds an extra menu at the washing machine that requires the operator to feed a 4-digit number – a Batch ID number. This number is used to keep trace of a specific wash in CMIS.

Always allow start

Select this option to always allow start. Default configuration.

4.4.1.4 Process Validate

This setting is valid for the whole system. Note that machine specific settings also could be made on a lower level – the machine level or in some cases even in the program level. Settings made on machine or program level has higher priority.

Normal run

Use this menu if there is no need to process validate. This is the default configuration. No process validation data will be saved.

Process validate

Use this menu if you want to process validate. Process validate will record extra data to make it possible to print a validation receipt.

4.4.2 Network settings — Network level

Network settings on Network level apply to the relevant network. Here you can e.g. change the network's name or take the opportunity to describe the network in the Description box.

- To change the network setting:
- 1. Click on Network settings
- 2. Select the required network.
- 3. Make the required changes under:
- Network settings
- Communication settings

Network settings	
System Add network ▲ Add machine ★ Delete System C - COM1 C - COM1 C - C ON1 C - C - C ON1 C - C - C ON1 C - C - C - C - C - C - C - C - C - C -	Settings for network: 0 - COM1 Scan network Network settings ID ID Name COM1 Description CMIS v4 RS232 WASHER/DRYER/IRONER DRIVER Rev40
	Communication settings Driver CMIS v4 RS232 WASHER/DRYER/IRONER DRIVER Rev40 Connection COM4

4.4.2.1 Network settings

ID

The network's ID number. Several networks may be present, and each network has a unique ID number. Cannot be changed after a network has been configured.

Name

Network's name. By default, COM port is shown

Description

Description is a free text field describing the network. This text is only used here. Useful for specific information if several networks are used simultaneously.

4.4.2.2 Communication settings

The values in Communication settings are automatically assigned on installation and should not normally be changed.

Connection

The serial port which this network use on your PC.Default is Com 1, but other serial ports could be used.

Network driver information

Contains actual information for current driver. For service purpose mainly.
4.4.3 Network settings — Machine level

Network settings on Machine level apply to the relevant machine and are consequently also the default values for all the programs on the machine. Note that start settings as well as settings for process validation on a specific machine have higher priority than settings adjusted in Network settings – System level.

To change the network setting for machine:

- 1. Click on Network settings.
- 2. Select desired network.
- 3. Select desired machine.

system	Settings for machine: 0:11 W4180H 2 I/O
🗙 Delete	🕨 📕 🛛 🔄 Scan machine 🛛 🤷 Change driver 🖉 Change adress
 System O - COM1 O - COM1<!--</th--><th>Machine settings Address 11 Name W4180H 2 I/O Description Showroom</th>	Machine settings Address 11 Name W4180H 2 I/O Description Showroom
	Machine driver W3180H/W4180H 2 I/O Change driver Process settings
	Print reciept on process done
	Allow start settings (only washers)
	Use system setting
	Process validate
	Use system setting

- 4. Adjust settings for the selected machine under:
- Machine settings
- Model definition
- Process settings

4.4.3.1 Machine settings

Address

The machine's network address. Can be a number between 1- 127. Note! If the machine's ID number is changed here it must also be changed in the appropriate machine.

Name

Text box in which the name of the machine can be changed. The name is assigned automatically on installation but can be changed if required. The name chosen here will be displayed in the various CMIS menus.

Description

Text box for entering an explanatory description of the machine. This text will be displayed in the various CMIS menus in the Machine free text box.

4.4.3.2 Model definition

Model definition is the communication definition that the activated machine uses. The pre-selected definition for each model is standard and should be selected. Changing definition should only be made when advised from supplier. Incorrect configuration will affect on statistics.

4.4.3.3 Process settings

Under this menu you can decide if you want to print a process validation receipt at the end of the cycle as well as select which printer to use. When you check off the dialogue "Print receipt on process done", the printer menu is activated. Then select the required printer (Windows standard, assumes that there is a printer installed). Note that several other settings affect the function:

- Under Network settings System level Process settings you should state if you want a receipt after a normal completed process verification or incorrect process verification. See System setup/General system settings.
- Under Network settings System level Process settings or Network settings Machine level, Process validate settings must be set to process validate. See System setup/General system settings or System setup/Machine settings.

4.4.3.4 Allow start settings (only washers)

- 1. Click on Network settings.
- 2. Select desired machine.
- 3. Adjust settings for the chosen machine in the Start pull-down menu (A):

Use System settings

Use this setting if the machine is to use the system's general setting adjusted in Global run settings.

Always deny start

Puts the machine out of operation

Demand Batch ID before start

Adds an extra menu at the washing machine that requires the operator to feed a 4-digit number – a Batch ID number. This number is used to keep trace of a specific wash in CMIS.

Always allow start

Select this option to always allow start. Default configuration.

4.4.3.5 Process validation settings

- 1. Click on Network settings.
- 2. Select desired machine.
- 3. Adjust settings for the chosen machine in the Process validate pull-down menu (B):

Network settings	
X Delete	 Settings for machine: 0:11 W4180H 2 I/O III Change definition Change adress
 ▶ Delete ▶ System ▶ ● 0 - COM1 ● ● 0 0:2 W3180H 1 I/O ● ● 0 0:3 T4250 ● 0 0:4 W3130H 1 I/O ● 0 0:11 W4180H 2 I/O ● ● 0 0:12 T4350 ● 0:14 IC44832 LF 	Machine settings Address Address <t< td=""></t<>

Use System settings

Use this setting if the machine is to use the system's general setting adjusted in Global run settings.

Normal run

Use this menu if there is no need to process validate a cycle. This is the default value.

Process validate

Use this menu if you want to process validate a cycle. Process validate will mark process data and also record extra data to make it possible to print a validation receipt.

4.4.3.6 Program settings (washers and dryers only)

Under program settings, apart from reading detailed information about a program, you can also set process settings. It is also possible to deactivate process verification for the selected program. The settings for a program always have higher priority than settings in Network settings/Machine settings.

To change the run settings for a program:

- 1. Click on Network settings.
- 2. Select desired network.
- 3. Select desired machine.
- 4. Select desired program.
- 5. Adjust settings for the chosen machine as described below: These are reset by Reset program information (A).



Program

In the Program box, information and statistics for the selected program are displayed. Values for Fastest run, Fastest date, Longest run and Longest date are reset with the Reset program information button.

Process settings — Deactivate process verification for a specific program

It is possible to deactivate process validation for the selected program. Check the Do not process validate this program box if the program is not to be process validated. This box is empty by default, i.e. process verification active.

Process settings — Allow start settings (only washers)

- 1. Click on Network settings .
- 2. Select desired machine.
- 3. Select desired program
- 4. Adjust settings for the chosen machine in the Start pull-down menu (C)



Use System settings

Use this setting if the machine is to use the system's general setting adjusted in Global run settings.

Always deny start

Puts the machine out of operation.

Demand Batch ID before start

Adds an extra menu at the washing machine that requires the operator to feed a 4-digit number – a Batch ID number. This number is used to keep trace of a specific wash in CMIS.

Always allow start

Select this option to always allow start. Default configuration.

4.4.4 Main settings

The Main settings menu can be found in the System pull-down menu.

<u>File Machine Statistics Process Va</u>	lidation <u>Settings</u> <u>View Help</u>	
5 System	Main settings Database settings	s valida
Machines Machines Pro	ocess Val	t Export d
	🛛 🔍 💽 Customize application	

Under Main settings it is possible to adjust a number of settings for

- Temperature
- Directories
- Sound effects
- Receipt settings
- Language settings

4.4.4.1 Temperature

Under Temperature you can select if the temperature is to be displayed in Celsius or Fahrenheit. Celsius is pre-set. To select the temperature unit:

- 1. Under Temperature, select Celsius or Fahrenheit.
- 2. Click OK when the settings are complete.

Main settings Sound effects Receipt settings Language settings Temperature Celsius Fahrenheit Directories Machine configuration file folder (ccp files) C:\ProgramData\CMIS\Ver5\Configuration Process data folder (xml files) C:\ProgramData\CMIS\Ver5\ProcessFiles\	23	_			
Temperature Celsius Fahrenheit Directories Machine configuration file folder (ccp files) C:\ProgramData\CMI5\Ver5\Configuration Process data folder (xml files) C:\ProgramData\CMI5\Ver5\ProcessFiles\	Main settings	Sound effects	Receipt settings	Language settings	
 Celsius Fahrenheit Directories Machine configuration file folder (ccp files) C:\ProgramData\CMIS\Ver5\Configuration Process data folder (xml files) C:\ProgramData\CMIS\Ver5\ProcessFiles\	Temperature	~			
Fahrenheit Directories Machine configuration file folder (ccp files) C:\ProgramData\CMI5\Ver5\Configuration Process data folder (xml files) C:\ProgramData\CMI5\Ver5\ProcessFiles\	Celsius				
Directories Machine configuration file folder (ccp files) C:\ProgramData\CMIS\Ver5\Configuration Process data folder (xml files) C:\ProgramData\CMI5\Ver5\ProcessFiles\	Fahrenhe	it			
Machine configuration file folder (ccp files) C:\ProgramData\CMIS\Yer5\Configuration Process data folder (xml files) C:\ProgramData\CMIS\Yer5\ProcessFiles\	Directories				
C:\ProgramData\CMIS\VerS\Configuration Process data folder (xml files) C:\ProgramData\CMIS\VerS\ProcessFiles\	Machine con	figuration file folde	r (ccp files)		
Process data folder (xml files) C:\ProgramData\CMIS\Ver5\ProcessFiles\	C:\Program[Data\CMIS\Ver5\(Configuration		
C:\ProgramData\CMIS\Ver5\ProcessFiles\	Process data	folder (xml files)			
	C:\Program[Data\CMIS\Ver5\F	ProcessFiles		

4.4.4.2 Directories

Under Directories you can set the path to the folders where certain information is stored by CMIS.

Machine configuration files

This is the path to the folder where the machine files are located.

Note that the settings for machine files may only be changed on the recommendation of the manufacturer. Incorrect configuration can result in incorrect operation in CMIS.

Process data folder

This is the path to the folder where XML process files are located. Whether process data should be saved to XML-files or not is configured in Network Settings/General system settings, see Create XML-files on process done.

Cost calculation template

This is the path to the folder where the Cost calculation template is located.

Cost calculation result

This is the path to the folder where the Cost calculation result is located. Whether process data should be saved to XML-files or not is configured in Network Settings/General system settings, see Create XML-files on process done.

Main settings	
Main settings	
Main settings 🔱 Sound effects 🔛 Receipt settings 🅥 Language settings	
Temperature	
O Celsius O	
© Fahrenheit	
Directories	
Machine configuration file folder (ccp files)	
C:\ProgramData\CMIS\Ver5\Configuration	
Process data folder (xml files)	
	fig.5825-1

4.4.4.3 Sound effects

Under Sound effects it is possible to activate and select the required sound for each type of alarm.

To select sound files for alarms:

- 1. Check the required alarms and select the appropriate sound file (*.wav) with the button. Test the sound with the button. Sound files do not come with the program but are available as standard in the Windows folder.
- 2. Click OK when the settings are complete.

Main settings	×
Main settings	
Aain settings 🔌 Sound effects 🔀 Receipt settings 🅥 Language settings	
Sound alarm on errors	
	🕨
Sound alarm on service	
	🕨
Sound on process start	
Sound on process end	
	🕨
Sound on program step	
OK Cancel	Apply

4.4.4.4 Receipt settings

Under Receipt settings you can enter additional information for the process verification receipt. You can also add your own logo to the receipt.

- 1. Under Receipt settings, enter the additional information which is to appear on the receipt.
- 2. Select the logo to be printed on the receipt. The logo must be in BMP file format and measure approx. 20 x 60 mm.
- 3. Click OK when the settings are complete.

Main settings	
Main settings Main settings Sound effects Receipt settings Language settings	
Company address/information Electrolux Laundry System Ringvägen 14 341 33 Ljungby Sweden	
Company logo file	
C:\ProgramData\CMIS\Logo.bmp	
OK Cancel Apply	
	fig.5825-

4.4.4.5 Language settings

Under language settings you can change the language in which the CMIS application is presented. The list shown contains available languages.

- 1. Under Language settings, press the button in front of the desired language.
- 2. Press OK to confirm.
- 3. In order for the language change to take effect, you must close the CMIS application and restart it. Note that Language settings will change the language in all texts in the program apart from model designations, error code texts, etc. In order for language changes also to affect these, Scan network or Scan machine has to be run again.

Language LCID Version File Image Image Image C:\Program Files (x86)\F Image English (United States) 1033 4.0.1.1423 C:\Program Files (x86)\F Image Spanish (Spain, Traditional Sort) 1034 0.0.0.0 C:\Program Files (x86)\F Image Image 1036 0.0.0.0 C:\Program Files (x86)\F Image Image 1036 0.0.0.0 C:\Program Files (x86)\F Image Image 1041 0.0.0.0 C:\Program Files (x86)\F Image Image 1053 0.0.0.0 C:\Program Files (x86)\F Image Image 1053 0.0.0.0 C:\Program Files (x86)\F Image: Image: 1053 0.0.0.0 C:\Program Files (x86)\F Image: Image: 1053 0.0.0.0 C:\Program Files (x86)\F	91	Main settings	Sound effects	Receipt	settings	S Languag	je settings	
German (Germany) 1031 0.0.0 C:\Program Files (x86)\E English (United States) 1033 4.0.1.1423 C:\Program Files (x86)\E Spanish (Spain, Traditional Sort) 1034 0.0.0 C:\Program Files (x86)\E French (France) 1036 0.0.0 C:\Program Files (x86)\E Japanese (Japan) 1041 0.0.0 C:\Program Files (x86)\E Swedish (Sweden) 1053 0.0.0 C:\Program Files (x86)\E		Language		LCID	Version		File	
Image: Spanish (United States) 1033 4.0.1.1423 C:\Program Files (x86)\E Spanish (Spain, Traditional Sort) 1034 0.0.0.0 C:\Program Files (x86)\E French (France) 1036 0.0.0.0 C:\Program Files (x86)\E Japanese (Japan) 1041 0.0.0.0 C:\Program Files (x86)\E Swedish (Sweden) 1053 0.0.0.0 C:\Program Files (x86)\E	0	📕 German	(Germany)	1031	0.0.0.0		C:\Progra	am Files (x86)\E
Spanish (Spain, Traditional Sort) 1034 0.0.0.0 C:\Program Files (x86)\E French (France) 1036 0.0.0.0 C:\Program Files (x86)\E Japanese (Japan) 1041 0.0.0.0 C:\Program Files (x86)\E Swedish (Sweden) 1053 0.0.0.0 C:\Program Files (x86)\E	0	📕 English ((United States)	1033	4.0.1.1	423	C:\Progra	am Files (x86)\E
Image: Swedish (Sweden) 1036 0.0.0.0 C:\Program Files (x86)\E Image: Swedish (Sweden) 1053 0.0.0.0 C:\Program Files (x86)\E	0	💶 Spanish	(Spain, Traditional So	ort) 1034	0.0.0.0		C:\Progra	am Files (x86)\E
 Japanese (Japan) 1041 0.0.0.0 C:\Program Files (x86)\E Swedish (Sweden) 1053 0.0.0.0 C:\Program Files (x86)\E 	0	French (France)	1036	0.0.0.0		C:\Progra	am Files (x86)\E
Swedish (Sweden) 1053 0.0.0.0 C:\Program Files (x86)\E	0	Japanese	e (Japan)	1041	0.0.0.0		C:\Progra	am Files (x86)\E
4	0	Swedish	(Sweden)	1053	0.0.0.0		C:\Progra	am Files (x86)\E
	1			m				

4.4.5 Database settings

The Database settings menu can be found in the System pull-down menu.

File Machine Statistics Process Validation	Settings View Help <u>Network settings</u> Main settings	
🜷 System	<u>D</u> atabase settings	s valida
Machines Matatistics Process Val	Health care settings Setup working days t	Export d

Under Database settings you can display and adjust settings for the database

- Display database information
- How long to save data in the program's database
- Database folder and file name
- Create a backup of present database
- Restore database backup

Note!

Changes to the database settings can result in information being lost, in the database becoming very large or in the program crashing. Do not make any changes to settings before consulting the supplier.

4.4.5.1 Information

Shows statistics of present database, such as size, version, number of events and location.

🚯 Information 📑 Data settings 🚺	🔓 Backup & Restore	
Interbase version:	Interbase XE To-Go (10.0.4.590)	
Database file:	C:\ProgramData\CMIS\Ver5\Data\CMIS.DB5	
Database file structure version:	15.00	
Database file size on disk:	2444 kb	
CMIS data structure revision:	√5.0	
Database owner:	CMIS	
Table usage		
SERVERLOG	0	
NETWORKS	2250	
MACHINES	2916	
PROGRAMS	4944	
MACHINECFG	64	
PROCESSES	0	
PROCESSMEASURESERIES	0	
PROCESSMEASURES	0	
PROCESSMEASUREDATA	0	
PROCESSCONSUMPTIONSERIES	0	
PROCESSCONSUMPTIONS	0	
FROCESSCONSUMPTIONDATA	0	
IRONSHEETS	0	-
🛐 HOURDATA	152	
ERRORS	0	
SERVICES	n	
Table size/File size ratio: 23241%	10,5 kb	

4.4.5.2 Data settings

Database file

Path to CMIS database. Default file is C:\ProgramData\CMIS\ver5\Data\CMIS.DB5 To select a different database:

- 1. Press the button on the right of the database's path and search for the new database. It is also possible to enter the path to the required database directly.
- 2. Press OK when the settings are complete.

Active data history

Process data within the Active data history time has got the highest resolution for statistics like energy and water consumption. Pre-set value is 30 days.

By pressing Perform active data purge now, it is possible to pack the active data history to the lower resolution used by the passive data history.

Passive data history

When data is no longer within the Active data history, it will be moved to the Passive data history. In this stage, the database is packed but data retained. Data older than Passive data history will be deleted, only statistics saved in Cost calculation and Service alarms will remain. Pre-set value is 90 days.

Service alarms older than this date can be manually cleared using Purge, see Machine/Machine service/Purge.

Database settings
🛃 Database settings
👩 Information 🗔 Data settings 📳 Backup & Restore
Database file Database file (Change of database file will not take effect until you restart CMIS) C:\ProgramData\CMIS\Ver5\Data\CMIS.DB5
Active data settings Active data settings Active data history 30 days Process data from now to the amount of days back in time entered above is considered as active data by the system. Active data has the highest resolution for statistic functions such as energy and water consumption. Perform active data purge now Performs a compression of active process data to shrink database file on disk
Passive data settings Passive data history 90 days Process data goes into a passive stage once it leaves the active time span. When data is no longer considered passive, it gets deleted. You can decide for how many days data should be stored in the database before it gets deleted. Image: the store of the stor
OK Cancel Apply

4.4.5.3 Backup and Restore

Create backup

Use this function to create a backup of current data

- 1. Press on Create backup
- 2. Add a description of the backup (optional)
- 3. Press OK
- 4. Default name of backup file is date and time (YYYYMMDDhhmm.cmisbkp). You can change it if you wish.
- 5. Press OK to save the file.

Restore backup

Use this function to restore a previously saved backup

- 1. Press on Restore backup
- 2. Locate and select the backup file you wish to restore
- 3. Press OK

Note!

This action will overwrite the present database. Create a backup if you wish to be able to restore it later.

Database settings	
🔞 Information 🔯 Data settings 🛱 Backup & Restore	
Create backup Click here to create a backup file of your current data Restore backup Click here to select an existing backup file and perform a restore	
Status	
	-
OK Cancel Apply	

4.4.6 Health care settings

The Health care settings menu can be found in the System pull-down menu.

System Database settings Health care settings	<u>F</u> ile <u>M</u> achine <u>S</u> tatistics <u>P</u> rocess Validation <u>S</u> S ■ ● S ■ ■ ■	Settings View Help	
👘 <u>H</u> ealth care settings	🌷 System	Main settings Database settings	valida
Machines Matistics Process Val	Machines Matistics Process Val	Health care settings Setup working days	Export da

Health care settings are settings for the way process validation should manage:

- Temperature and time in a wash process
- RMC or temperature and time in a drying process
- RMC in an ironing batch

Note!

When Health care settings are active, the settings apply globally for all programs that are process verified in all networks.

4.4.6.1 Washers

Health care settings for washers verifies minimum temperature and time in a wash process.

Min temperature – The lowest temperature the machine must achieve and remain above for the time specified in Time in min. temp.

Time in min temp - The time in minutes that the machine must remain, at or above the temperature specified in Min temperature.

Name - Here you can enter a text that will appear together with the temperature, e.g. RABC, HACCP, ISO 22000, EN 14065 or other information, to indicate the standards or limits used for health care verification.

Washers Dryers Ironers Use Health care validation on all washes Min temperature is the temperature a machine must reach and stay above for a specified time. Time in min temp Time in min temp indicates for how long in minutes a wash must have a min temperature. Name Name is the text that will appear together with	+ Health Care set	ttings
Use Health care validation on all washes Min temperature 65 Min temperature is the temperature a machine must reach and stay above for a specified time. Time in min temp 20 Min temperature is the temperature a machine must reach and stay above for a specified time. Time in min temp indicates for how long in minutes a wash must have a min temperature. Name Name is the text that will appear together with	🗊 Washers 📄 Dryers 🍃 Irone	rs
Min temperature Min temperature is the temperature a machine must reach and stay above for a specified time. Time in min temp Time in min temp indicates for how long in minutes a wash must have a min temperature. Name Name is the text that will appear together with	Use Health care validation or	n all washes
Time in min temp Time in min temp indicates for how long in minutes 20 x a wash must have a min temperature.	Min temperature	Min temperature is the temperature a machine must reach and stay above for a specified time.
Name Name is the text that will apear together with	Time in min temp	Time in min temp indicates for how long in minutes a wash must have a min temperature.
DADC	Name	Name is the text that will apear together with
		OK Cancel Apply
OK Cancel Apply	Pro-	

Min temperature, Time in min temperature and Name

Adjust the settings as described below:

- 1. Select washers.
- 2. Choose if Health care validation is to be used by activating Use Health care validation on all washes.
- 3. Set the required values in Min temperature, Time in min temp and Name.
- 4. Click OK when the settings are complete.

Health Care Settin	ngs
Use Health care validation on all v	vashes
Min temperature	Min temperature is the temperature a machine
65	must reach and stay above for a specified time.
Time in min temp	Time in min temp indicates for how long in minutes
20	a wash must have a min temperature.
Name	Name is the text that will apear together with
RABC	the wash information.

4.4.6.2 Dryers

Health care settings for dryers verifies RMC (if exist), or temperature and time (if RMC does not exist).

Max RMC at end – The maximum RMC value that is allowed (when program has ended, to accept process (only used on dryers with RMC).

Min temperature – The lowest temperature the machine must achieve and remain above for the time specified in Time in min. temp.

Time in min temp – The time in minutes that the machine must remain, at or above the temperature specified in Min temperature.

Min temperature and time in min temp is only used on dryers without RMC.

Name – Here you can enter a text that will appear together with the temperature, e.g. RABC, HACCP, ISO 22000, EN 14065 or other information, to indicate the standards or limits used for health care verification.

👩 Washers 🗐 Dryers 🎦 Iro	oners
🔲 Use Health care validation	on all dryings
Max RMC at end	If machine has a RMC indicator, this is the value that will be followed by the health care control. Otherwise the health care control will check the temperatures below
Min temperature 50 Time in min temp 1	Min temperature is the outlet air temperature a machine must reach and stay above for a specified time. Time in min temp indicates for how long in minutes
	a drying must have a min outlet air temperature.
Name RABC	Name is the text that will apear together with the drying information.

Max RMC at end, Min temperature, Time in min temperature and Name

Adjust the settings as described below:

- 1. Select dryers.
- 2. Choose if Health care validation is to be used by activating Use Health care validation on all washes.
- 3. Set the required values for max RMC at end or Min temperature, Time in min temp. Also set an appropriate name.
- 4. Click OK when the settings are complete.

Washers Dryers Dryers	ners
Use Health care validation	on all dryings
Max RMC at end	If machine has a RMC indicator, this is the value that will be followed by the health care control. Otherwise the health care control will check the temperatures below
Min temperature 50 Time in min temp 1	Min temperature is the outlet air temperature a machine must reach and stay above for a specified time. Time in min temp indicates for how long in minutes a drying must have a min outlet air temperature.
Name RABC	Name is the text that will apear together with the drying information.

4.4.6.3 Ironers

Health care settings for ironers verifies the output RMC value.

Max RMC – The maximum RMC value that is allowed during the batch.

Name – Here you can enter a text that will appear together with the temperature, e.g. RABC, HACCP, ISO 22000, EN 14065 or other information, to indicate the standards or limits used for health care verification.

Treatent	Lare settings		
🗐 Washers 🗐 Drye	rs DIroners		
U se Health care	validation on all ironers		
Max RMC			
130 -	TI	he RMC out value must not exceed the	is value to be accepted
Name RMC <8%	N	ame is the text that will apear togethe	r with
		and the second of the second	

Max RMC and Name

Adjust the setting as described below:

- 1. Select Ironers
- 2. Choose if Health care validation is to be used by activating Use Health care validation on all ironers.
- 3. Set the required values for Max RMC. Also set an appropriate name.Default setting is 130, which corresponds to a residual moisture content of 6.5%

Calulate max RMC value from following formula: Desired RMC content in % x 20 = max RMC value.

4.4.7 Set up working days

Setup working days menu can be found in the System pull-down menu.

Image: System Image: Main settings Image: Statistics Im	Eile Machine Statistics Process Validatio	n <u>Settings View H</u> elp	
Machines M Statistics Process Val	🕏 System	Main settings Database settings	s valid
	Machines Machines Process V		Export of

Working days are used to calculate working overtime in Machine utilization and in Total consumption menu. It is also used for calculating idle time.

A working day is activated by the checkbox in front of each day.

Set the starting and ending time of each working day in the format $\ensuremath{\mathsf{h:mm}}$.

Setup working days and h	ours	×	
	From	То	
Monday	07:00	17:00	
V Tuesday	07:00	17:00	
Wednesday	07:00	17:00	
Thursday	07:00	17:00	
Friday	07:00	17:00	
🗐 Saturday	07:00	17:00	
Sunday	07:00	17:00	
	<u>.</u>		
	ОК	Cancel	
			fig.W0003

4.4.8 Customize application

The Customize application menu can be found in the System pull down menu.

File Machine Statistics Process Validation Sum Statistics Process Validation Sum Statistics Process Validation	Settings View Help	
🜷 System	<u>D</u> atabase settings	is valida
Machines M Statistics Process Val	Health care settings Setup working days	t Export d
	<u>Customize application</u>	

It is possible to adjust the menus for statistics and process verification so that only the desired functions are displayed.

Show statistics/Process validation

To adjust the menus:

- 1. Select the functions that you want to be displayed in the Statistics menu under Show statistics. CMIS will collect data even for the statistics that are not checked.
- 2. Unchecking the Show process validation functions box will hide the Process Validation folder from the System menu. CMIS will keep the previously saved data, but not collect any further until this box is checked again.
- 3. Click OK when the settings are complete..

Customize Application	X	
Enable statistics		
Run hours	Heating	
Program run hours	🕅 Weight	
🔽 Idle time	Ironed pieces	
🔽 Machine usage		
Total consumption	Vash cycles	
Water	V Drying cycles	
Chemical	✓ Ironing batches	
Process validation		
Enable process validation	functions	
	OK Cancel	
		fig.5829

4.4.9 Process viewer

Process viewer makes it possible to view a single process after it has ended and during the number of days that is configured in CMIS.

It is possible to view both information about the selected process...

rocesses			×	Wash process		
				Process information Pro	core graph	🕼 Send as e-mail 🚄 Pri
achine	Batch	Time	m	Machine information		
0.2 - W3180H 1 I/O	[8200]	2011-10-13 10:00:24		Address	0.11	
0:3 - T4250	[0613]	2011-10-13 10:07:41	- Â	Address	0:11	
0:12 - T4350	[0006]	2011-10-13 10:17:59		Machine	W4180H 2 I/O	
0:11 - W4180H 2 L	[8856]	2011-10-13 10:18:29		Manufacturer	0 ELS	
0:4 - W3130H 1 I/O	[4266]	2011-10-13 10:37:12		Model	34 W4180H	
0:3 - T4250	[0614]	2011-10-13 11:01:38		SMID	635072	
0:2 - W3180H 1 I/O	[2164]	2011-10-13 11:05:06		Process modulo firmutare	31.00	
0:3 - T4250	[0616]	2011-10-13 11:09:53		Process module inniware	21.00	
0:11 - W4180H 2 I	[7301]	2011-10-13 11:12:45		Process information		
0:12 - T4350	[0008]	2011-10-13 11:13:34		Time	2011-10-13 10:18:29	
0:3 - T4250	[0617]	2011-10-13 11:17:00	ш	Program	992 - NORMAL 60°C	
0:4 - W3130H 1 I/O	[2589]	2011-10-13 11:31:57		Batch	[8856]	
0:12 - T4350	[0010]	2011-10-13 12:03:45		Duration	00:53:17	
0:11 - W4180H 2 I	[3091]	2011-10-13 12:04:47			56.00	
0:3 - T4250	[0619]	2011-10-13 12:08:40		Max temperature	56 %C	
0:2 - W3180H 1 I/O	[0111]	2011-10-13 13:11:05		Min temperature	16 °C	
0:4 - W3130H 1 I/O	[1013]	2011-10-13 13:17:09		Process Validated	Yes	
0:3 - T4250	[0620]	2011-10-13 13:17:17		Error	No	
0:3 - T4250	[0621]	2011-10-13 14:05:00		Rapid advanced	No	
0:14 - IC44832 LF	[9348]	2011-10-13 16:19:51			N	
0:2 - W3180H 1 I/O	[7259]	2011-10-14 06:36:34		Long pause	No	
0:4 - W3130H 1 I/O	[6793]	2011-10-14 06:37:00		Completed OK	Yes	
0:3 - T4250	[0622]	2011-10-14 07:27:13				
0:12 - T4350	[0012]	2011-10-14 14:11:09				
0:11 - W4180H 2 I	[4635]	2011-10-14 14:11:50				
0:14 - IC44832 LF	[0110]	2011-10-14 14:11:58				
0:12 - T4350	[0014]	2011-10-14 14:57:35	_			
0:4 - W3130H 1 I/O	[6593]	2011-10-17 06:33:23				

...and the process itself.



4.5 Pop-up menus for service alarms

Service alarms are displayed in the pop-up boxes and acknowledged in CMIS. The alarm is logged in Machine Service. See also Machine - Service.

In the pop-up box, information about the service alarm is displayed, such as the network, machine, type of service, time and operating time.

In the Service text box, an explanatory text about the alarm is displayed.

A service alarm must be signed in the Sign field, before being acknowledged with OK. It is also possible to print a service alarm report.

Perform service		
Derf	form service	
Network Machine Service Time Run hours	0 - COM1 0:4 W3130H 1 I/O Monthly Service 2011-10-14 15:21:48 20929 Hours	
Service text	Clean inlet water filters OK Clean drain valve OK Check drive belt tension OK	
Sign	Service Manager	
		fig.5830

4.6 Pop-up menus for error codes

Error codes are displayed in pop-up boxes and acknowledged in CMIS or on the machine. If an error code is acknowledged on the machine, it is also automatically acknowledged in CMIS and logged in Error codes. See also Machine/Machine Error. In the pop-up box, information about the fault is displayed, such as the network, machine, program and program step involved, as well as the time and number of hours since the last service. The Suggestions box displays a suggestion as to how the fault should be rectified.

Errors are acknowledged using the Confirm All and Confirm buttons.
--

5 Trouble shooting

5.1 Communication

CMIS is unable to contact a machine in the network. The machine information window displays time out

- 1. Check that the voltage on the machine is switched on.
- 2. Check that the green LED on the Machine Interface PC is lit. Green LED indicates the Power supply to the Interface. Communication does not work if this doesn't light up.
- Check communication to and from the machine. Both yellow and red indicates transmission in the network. This means that both LED's are light off when there is no communication, but flashing when communication is running.
 - Yellow LED indicates transmission to the CMIS Interface.
 - Red LED indicates transmission from the CMIS Interface.

If a CMIS Interface Machine has a flashing Yellow LED, but the Red LED is off there could be some different causes:

- Correct Machine Address is not set, or set to '0' = Inactive.
- CMIS is not configured correctly. If CMIS communicates with another machine (red and yellow LED on CMIS Interface PC is flashing) but yellow LED on Machine Interface is off.
- Check electrical connections from network to CMIS Interface Machine.

A machine is not found during a network scan or when using Add machine

- 1. Turn off the power to the machine for 10 seconds, and then on again. This will re-initiate the communication protocol in the control system.
- 2. Perform a Network scan or use Add machine to add it to the network.
- 3. Perform actions according to 2 and 3 above.

5.2 Process verification

Program cycle is not proces verified

Check the settings for process verification. Settings for which programs are to be process verified are carried out in the menus:

- General system settings
- Network settings
- Machine settings
- Program settings

These settings can be found in Software description and settings/ System Setup/Networks.

Of the settings in these menus, program settings have the highest priority and General system setting the lowest.

The program cycle is process verified although this was not requested

Check the settings for process verification. Settings for which washes are to be process verified are carried out in the menus:

- · General system settings
- Network settings
- Machine settings
- Program settings

These settings can be found in Software description and settings/ System setup/Networks.

Of the settings in these menus, program settings have the highest priority and General system setting the lowest.

The program cycle is process verified but the receipt says nothing about Health care settings

Health care settings must be activated manually; for setting Healthcare settings, see Software description and settings/System setup/Health care settings.

Only one wash/drying program to be process verified

Begin by activating the process verification settings for the required machine; for setting, see Software description and settings/System setup/Networks/Machine settings. Then deactivate the programs that are not to be process verified at wash program level; see Software description and settings/System setup/Networks/Wash program settings.

5.3 Statistics

No statistics are shown for liquid detergent

This function assumes that the wash programs on the machine have the detergent valves programmed. This is not the case for the factory programs, which have to be programmed manually.

When the valves are programmed, you should always be able to see statistics in minutes. If this is working but not the statistics in millilitres of detergent, this is probably because the constant data values are always set at zero on installation. For further information, see Software description and settings/Machine/Machine settings/Liquid detergent.

No statistics are shown for Energy consumption

Assuming that the machine has heating and that the heating is programmed in the programs, you should always be able to see statistics in minutes. If this is working but you still cannot see statistics in kWh, this is probably because the constant data values for heating are set at zero on installation. For further information, see Software description and settings/Machine/Machine settings/Energy consumption.

One or more machines appear grey in the machine information window. No statistics for these machines are shown

The machines have probably been deactivated. Select the machines and press Activate machine to activate them.

No statistics for weight measurement are shown despite weight measurement being present in the machine

Most washing machines have some form of weight measurement, but this function requires the presence of IWS (Internal Weight System).

If IWS is present, but the function still does not work, check under System setup/Networks/General system settings, that the "Fetch weight if scale exists on machine" box has been checked off.

The text "ID number" appears in the washer extractor's display each time it is started

CMIS is configured to retrieve ID numbers at start-up.

These settings are adjusted in the menus:

- · General system settings
- Machine settings
- Program settings

These settings can be found under Software description and settings/System setup/Networks.

Change Start settings to "Always allow start" if you wish to deactivate the function.

Of the settings in these menus, Wash program settings have the highest priority and General system setting the lowest.

There are no XML-files displayed when opening Process viewer

Saving XML-files must be activated manually, see Network settings – System – Process settings, Create XML-file on process done.

Length of an ironed piece is not correct

Calibrating the length of a sheet is done in service menu for the ironer by adjusting/calibrating the "Length value". Please refer to Ironer Service manual how to enter service program and adjust parameter "Length value".

5.4 Miscellaneous

Warning Message "New ID number detected"

This can happen if:

- The machine has been replaced and the new one has been given the same machine address as the old one.
- If the CPU card in the machine has been replaced.

Select Erase statistics if all statistics are to be deleted. This is used if a machine has been replaced. Then run Scan machine to update all information about the machine, see System setup/Networks/Scan machine.

Select Keep existing statistics if the statistics for the machine are to be saved. This is used if the CPU card in the machine has been replaced.

Select Deactivate machine if you want to investigate the reason for this message to appear. The machine will then be deactivated in the network. When you activate the machine, this message will appear again.

Old SMID: 54911060400203 New SMID: 54911060400202 CMIS has detected a new ID number (SMID) on a machine This happens if the complete machine has been replaced and named to an existing Machine address or if the CPU board in the machine has been replaced. You now have the possibility to select if you want all statistics for the chosen machine to be erased (in cas of new machine) or to keep existing statistics (only CPU board replaced). Please select your alternative below	Machine:	0:10 - EX760			
New SMID: 54911060400202 CMIS has detected a new ID number (SMID) on a machine This happens if the complete machine has been replaced and named to an existing Machine address or if the CPU board in the machine has been replaced. You now have the possibility to select if you want all statistics for the chosen machine to be erased (in case of new machine) or to keep existing statistics (only CPU board replaced). Please select your alternative below	Old SMID:	5491106040020	03		
CMIS has detected a new ID number (SMID) on a machine This happens if the complete machine has been replaced and named to an existing Machine address or if the CPU board in the machine has been replaced. You now have the possibility to select if you want all statistics for the chosen machine to be erased (in cas of new machine) or to keep existing statistics (only CPU board replaced). Please select your alternative below	New SMID:	5491106040020	02		
This happens if the complete machine has been replaced and named to an existing Machine address or if the CPU board in the machine has been replaced. You now have the possibility to select if you want all statistics for the chosen machine to be erased (in cas of new machine) or to keep existing statistics (only CPU board replaced). Please select your alternative below	CMIS has det	ected a new ID nun	nber (SMID) on a machin	e	
You now have the possibility to select if you want all statistics for the chosen machine to be erased (in cas of new machine) or to keep existing statistics (only CPU board replaced). Please select your alternative below	This happen the CPU boa	if the complete ma d in the machine h	achine has been replaced as been replaced.	and named to an exist	iing Machine address
Please select your alternative below	You now hav of new mach	e the possibility to s ine) or to keep exist	select if you want all stati ting statistics (only CPU b	stics for the chosen ma oard replaced).	achine to be erased (
Thease select your alcentative below	Please select	your alternative bel	ow		

Warning Message "Unexpected machine found on address X:Y"

This means that CMIS has detected a different machine model than before on an existing address.

It can be caused if wrong machine software was uploaded to an existing machine, or if an existing machine has been replaced with a different model, and the same address is used.

Select Delete old machine if all statistics are to be deleted. This is used if a machine has been replaced and you do not want to save the old statistics. Then run Scan machine to update all information about the machine, see System setup/Networks/Scan machine.

Select Hide old machine if the statistics for the old machine are to be saved. This is used if a machine has been replaced and you want to save the old statistics. Then run Scan machine to update all information about the machine, see System setup/Networks/Scan machine.

Select Deactivate machine if you think it is a mistake that causes the message. The machine will then be deactivated in the network. Investigate the reason for this message to appear, and correct it. If you activate the machine without correcting the mistake, this message will appear again.

Unexpected machine detected
Unexpected machine detected on address 0:10
Communication on this address has now been stopped until you have resolved the issue.
0:10 - EX760
Please select your desired action below
Deactivate machine.
Communication with this machine will stop until you activate the machine again. A new control will be performed once you reactivate the machine.
Delete old machine and statistics.
The statistics that CMIS has collected for the previous machine will be deleted. The new machine will be added on this address.
Hide old machine. Keep statistics.
The statistics that CMIS has collected for the previous machine will be kept. The new machine will be added on this address.
Deactivate machine Delete old machine Hide old machine

Message "Unsupported (old) machine software" During Network scan or Add machine process

CMIS has detected that the software in the scanned machine does not support CMIS. See section System requirements.

The machine will not be added to the network.

Contact Authorized Service to update the machine software and then use Add machine or Scan network again.



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