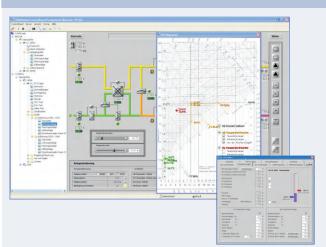


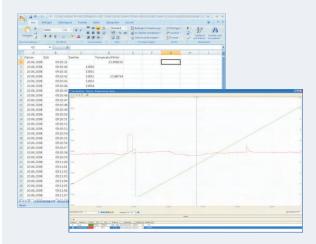


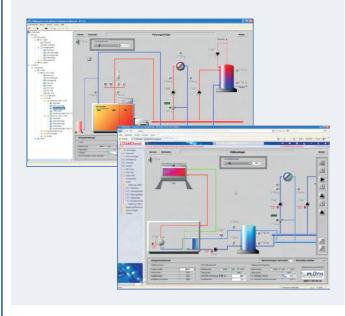
BMS-Software

Information

6.1







COSMOweb allows a web-based Building Management-Software (BMS) for operating, monitoring, parameterization and extensive alarm management of control and regulation devices (controller). The presentation of the information is transmitted via standard browser.

A touch screen able navigation is possible via installation graphics as well as via tree structure. The manufacturer independent communication will be done via the BACnet extension.

COSMOS BASICline controllers can be operated from bus version 2.25.

Following modules are included in the basic package:

Trend log

- Historicization of trend data when change in value
- Free definable polling interval of each data point
- Auto calling to decentralized COSMOS controller

Trend visualization

- Graphical visualization of trend data
- Unlimited number of trends in each diagram
 Free selection of trend data of various control
- Free selection of trend data of various controller
 Free parameterization of the ordinates of each trend chart
- Formula administration, pre-parameterized trend data selection
- Visualization of actual values at one time, possibility of comparison
- Zoom function for clear visualization of range view
- Print function
- CSV-export for processing with external programs, e.g. Excel

Event Client

- Software for notification of newly occurred events to any number of PC's in the network
- Alarming with definable sound
- Pop-up window

Modem module

For operating and monitoring of decentralized controller via telecommunication network, DSL, Internet

Graphical process visualization

- Displaying of installation graphics with graphical objects for visualization of set- actual / measured and event data as pictures, slider, progress bar, texts lines, color objects
- Supported graphic formats: vector graphics WMF, JPG, PNG, GIF, animated GIF
- Process-oriented rotation, flashing, positioning and resizing of graphic objects
- Auto zoom function: auto scaling of the installation graphics to corresponding resolution

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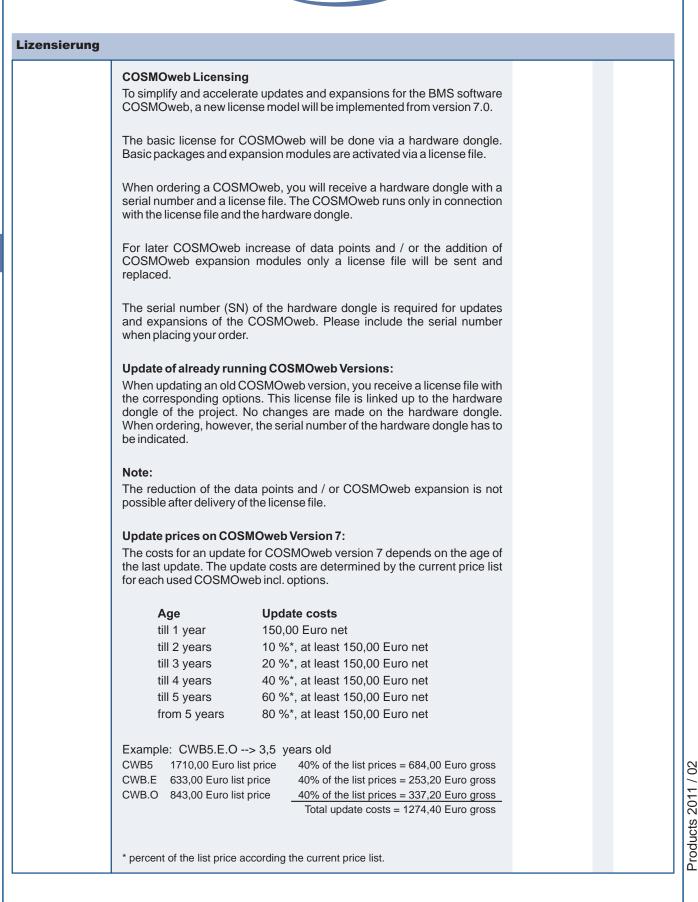


BMS-Software

Information		
	In addition to the scope of delivery for the basic package, the functionality of COSMOweb can be expanded using the following modules.	
	L = Log book E = Event server A = Event Control Center S = SQL - Module O = OPC - Module BAC.F = Fidelio Hotel booking system Mx = Energy manager BACx = BACnet expansion COSMOweb supported operating systems: WinXP Windows Server 2003 Windows 7 (32 and 64 Bit) Windows Server 2008 (32 and 64 Bit)	
	Order example:	
	DS-CWB2 COSMOweb basic package with 250 data points	
	DS-CWB2.S COSMOweb basic package with 250 data points and SQL module	
	DS-CWB10.E COSMOweb basic package with 1000 data points and event server	
	DS-CWB2.L.E.BAC5 COSMOweb basic package with 250 data points, log book, event client and expansion module native BACnet with up to 500 BACnet objects	
	Note:	
	When ordering a BACnet expansion module, the number of COSMOweb data points does not necessarily be the same as the number of BACnet objects.	
	The scope of delivery for COSMOweb does not include hardware, such as server PC, interface cards, modem, etc.	

6.1





New

6.1

6.1 - 4



SMOweb ba	sic package	Туре
	COSMOweb basic package for up tp 250 physical data points. The following modules are included in the basic package: Dynamic visualization, Modem module, Data logger X-RAM, Data logger on hard disk and RSD-transfer.	DS-CWB2
	COSMOweb basic package like CWB2 however for up to 500 physical data points.	DS-CWB5
	COSMOweb basic package like CWB2 however for up tp 1000 physical data points.	DS-CWB10
	COSMOweb basic package like CWB2 however for up to 2000 physical data points.	DS-CWB20
	COSMOweb basic package like CWB2 however for up to 5000 physical data points.	DS-CWB50
	COSMOweb basic package like CWB2 however for up to 10.000 physical data points.	DS-CWB100
	COSMOweb basic package like CWB2 however for up to 20.000 physical data points.	DS-CWB200
	COSMOweb basic package with unlimited number like CWB2 however for unlimited number of physical data points.	DS-CWB00
	COSMOweb Professional for project planning and a customer service tool. Complete package COSMOweb with all expansion modules and additional offline parameterizing for data back-up, however, without BACnet modules and without COSMOS DataManager. Incl. service and hotline. NOTE: - Participation at the training seminar COSMOweb Professional is prerequisite for the purchase of this software (Page 11.1 - 2) - COSMOweb Professional must not be used in projects or as BMS GLT !	DS-CWB00prof



SMOweb E	xpansion modules	Туре
	COSMOweb expansion module Logbook Software module to protocol user access. The software module records parameter changes which were effected via COSMOweb, indicating date, time, old and new effective dates. Further to this, user logins and logouts are recorded with date, time and user name. All protocols are saved in a database.	DS-CWB.L
	COSMOweb expansion module Event server Software module for relaying of events. (Alarm and reporting system); as SMS (TAP, UCP, GSM), E-Mail, Printer FAX, ASCII and COSMOweb	DS-CWB.E
	COSMOweb expansion module Event Control Center for the management of alarms and messages. The Event Control Center (ECC) is the central software for displaying and processing of the alarms and messages. It provides the ability to configure user-specific views for the display and therefore show all relevant information directly to the user. In addition to the time of recording the acknowledgements, it offers many more options for filtering and processing of alarms and messages. Important note: For the application of the Event Control Center additionally the COSMOweb expansion module Logbook is necessary.	DS-CWB.A
	COSMOweb expansion module SQL-Module Software module for bi-directional data exchange with other systems via a SQL database.	DS-CWB.S
	COSMOweb expansion module OPC-Server Software module for bi-directional data exchange with other systems via OPC protocol.	DS-CWB.O



BMS-Software

6.1

delio Hotel booking system	Туре
COSMOweb expansion module BACnet connection Fidelio Hotel booking system	DS-CWB.BAC.F
Software module for linking the Hotel booking system Fidelio on COSMOS via the BACnet protocol. This module makes the room allocation available suc Check-In, Check-Out and Pre-CheckIn as a BACnet of Each BACnet device in the network can access on the information. Automatic selection and alignment of the allocation on system start.	n as object. s
Note: For the application of the Hotel booking system additionally a BACnet expansion module is necessary	<i>.</i>



6.1

OSMOweb Er	nergy manager	Туре
	COSMOweb Energy manager is the software for monitoring, acquisition and assessment via meters for various energy consumers. Assessment of meters effected web-based via the Internet Browser. Data assessment realized via gas, electricity, water, garden water, heat or pulse meters Possible inputs are: - M-Bus meters - Contact inputs - Inputs from system-internal events Programme functions: - Definition of automatic metering	
	 Definition of manual metering Definition of virtual metering Definition of counter priority stages Main meter Intermediate meter End meter Virtual meter Preparing of accounts for assessment of building sections Dual language software: German - English Automatic switching of language via selected browser language Defining of consumption cost Assessment of various reporting forms Table Excel Statics 	
	Automatic linking of meters requires the use of the COSMOweb expansion module SQL Server (refer to page 6.1 - 5).	
COSMOwed Energemanager	COSMOweb Energy manager, for connecting of max. 25 meters	DS-CWB.M02
Star Software Ost Software 2016 64 Star Software Ost Software 2016 64 Star Software Ost Software 74500 65 Software Software 2010 90 WMT Software 2010 90 90 Software New York 2010 90	COSMOweb Energy manager, for connecting of max. 100 meters	DS-CWB.M1
	COSMOweb Energy manager, for connecting of max. 500 meters	DS-CWB.M5
	COSMOweb Energy manager, for connection of max. 1000 meters	DS-CWB.M10
	COSMOweb Energy manager, for connection of max. 2000 meters	DS-CWB.M20
	COSMOweb Energy manager, fo connection of max. 5000 meters	DS-CWB.M50
	COSMOweb Energy manager, for connection of unlimited number of meters	DS-CWB.M00



COSMOweb expansion module native BACnet Software module for connection of other data points via the BACnet protocol.	
The software module is integrated as a native BACnet driver into COSMOweb. There will be no coversion via other protocols.	
Note: For BACnet connection is a COSMOweb basic package necessary.	
COSMOweb expansion module native BACnet with up to 250 BACnet Objects	DS-CWB.BAC2
COSMOweb expansion module native BACnet with up to 500 BACnet Objects	DS-CWB.BAC5
COSMOweb expansion module native BACnet with up to 1000 BACnet Objects	DS-CWB.BAC10
COSMOweb expansion module native BACnet with up to 2000 BACnet Objects	DS-CWB.BAC20
COSMOweb expansion module native BACnet with up to 5000 BACnet Objects	DS-CWB.BAC50
COSMOweb expansion module native BACnet with unlimited numbers of BACnet Objects	DS-CWB.BAC00
	For BACnet connection is a COSMOweb basic package necessary. COSMOweb expansion module native BACnet with up to 250 BACnet Objects COSMOweb expansion module native BACnet with up to 500 BACnet Objects COSMOweb expansion module native BACnet with up to 500 BACnet Objects COSMOweb expansion module native BACnet with up to 1000 BACnet Objects COSMOweb expansion module native BACnet with up to 2000 BACnet Objects COSMOweb expansion module native BACnet with up to 2000 BACnet Objects COSMOweb expansion module native BACnet with up to 5000 BACnet Objects COSMOweb expansion module native BACnet with up to 5000 BACnet Objects COSMOweb expansion module native BACnet with up to 5000 BACnet Objects COSMOweb expansion module native BACnet with up to 5000 BACnet Objects COSMOweb expansion module native BACnet with up to 5000 BACnet Objects



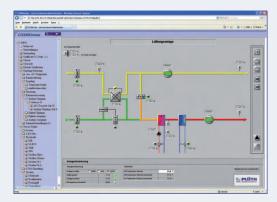
COSMOview

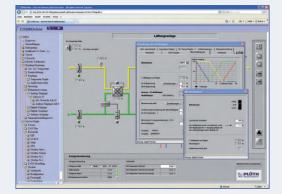
COSMOS[®]OPEN

Information

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2 ISP01				
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Stormeldungen	AB-Bollwert 21.0°C			
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- Ukreit	1.Sollvert-Anhebung	Neizventil 0.0 4		
C Obersicht	aktiv(-) mit 0.0 E	190-Blappe 0.0 %		
Globale Schaltzeiten	Emtakt invert. (-)	AU/FO-Klappe 30.0 %		
Regeling Stevering	anisticate trails in			
verz AU-Temperatur	2.Sollwert-Anhebung	(RBG-Betrieb) Wohlventil 100.0 %		
C Rambediening	sktiv(-) mit 0.0 E Emstakt invert, (-)	Wihlvensil 100.0 \$		
-29 Regelung	Rontast invert. (-)	Receipto Setries (8)		
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	AB-Boll.sweiv 21.0°C	Anfahrbetz, aktiv (-)		
Kaskadenregler	10-2011.4FF965 18.0.C	Anfahrregl, skniv (-)		
AB-Solivertschiebung	******************	Stetiger 75 sktiv (-)		
ZU-Softwertschiebung	AS-Temperatur 22.3"C	FS-Nontakt suppel. (-)		
RL-Temperatur Reder	20-Temperatur 23.1°C	LD-ADDIAKI MUBBELL(+)		
- Heizentil	AC-Temperatur 23.7°C	Sollwert = Intern(K)		
Wärmerückgewinnung	AL-Temperatur 21.4"C	Extern(-)		
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Activation of the graphical web-server on COSMOS OPEN controller.

COSMOview facilitates the operation and the use of your building services installations. COSMOview is available with graphic or text-guided user interface.

Depending on the licensing state, using the internal web server of COSMOS OPEN allows COSMOview to load either the graphic or the text-guided user menu and to parameterise the relevant COSMOS OPEN. The internal web server is operated via the standard Internet Explorer.

The text-guided version is standard and as such it is always activated for use. The graphical version is activated for 6 months, starting at the date of delivery by DEOS control systems. Thereafter, further unlimited licensing must be purchased.

COSMOview functions

- displays the project with graphic objects as images, control lines, columns, text items or colored objects for setpoint and actual value.
- supports vector graphics in WMF format.
- automatic size adjustment for all objects to match the current window (Autozoom),
- process-related size adjustment, flashing, rotating, positioning of objects.

6.1 - 10



COSMOview

COSMOS[®]OPEN

COSMOview	Тур	
	COSMOview x00/0 Activation of graphical user interface for COSMOS 600x/0 OPEN and COSMOS 500x/0 OPEN	DS-CV0
	COSMOview x00/5 Activation of graphical user interface for COSMOS 600x/5 OPEN and COSMOS 500x/5 OPEN, COSMOS 800/5 OPEN, COSMOS 700/5 OPEN	DS-CV5
	COSMOview x00/12 Activation of graphical user interface for COSMOS 800/12 OPEN and COSMOS 700/12 OPEN	DS-CV12
	COSMOview x00/32 Activation of graphical user interface for COSMOS 800/32 OPEN and COSMOS 700/32 OPEN	DS-CV32
	COSMOview x000/C1 Activation of graphical user interface for COSMOS 4000 OPEN C1 and COSMOS 3000 OPEN C1	DS-CVC1
	COSMOview x000/C2 Activation of graphical user interface for COSMOS 4000 OPEN C2 and COSMOS 3000 OPEN C2	DS-CVC2

6.1

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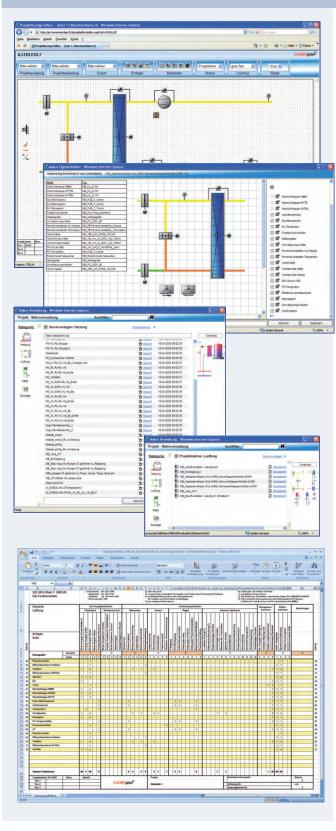


COSMOplan[®]

Software

Information

6.1



Today more than ever before, continuous cost reduction and optimizing of operational events are essential for the success of your company. Ever shorter set/up times with higher quality standards require effective tools. Employ suitable software to improve your company's efficiency. The software will handle many chores which currently are still done in long hand. DEOS control systems will show the way to intelligent planning and project management. COSMOplan is a totally new tool for truly minimizing your planning work for measuring and control projects.

Using COSMOplan will reduce the time required to a fraction. It prepares control schemes using prefabricated installation and component macros. Based on these features COSMOplan will generate all documents required for planning and project management, such as:

- Information lists acc. to VDI 3814
- Lists of cables
- Lists of cable lengths
- Lists of field equipment
- Lists of motors
- Lists of valves
- Valve dimensioning
- Calculation of switch cabinet size
- Calculation of loss at switch cabinet
- Functional description of measuring and control
- GAEB 90/2000 Export

Change or amend installations, individual components or text sections - and all lists are updated accordingly. COSMOplan not only supports during the planning phase, it also ensures optimum overview during project development and realization thus providing the basis for a time-referenced status and for continuous documentation.

COSMOplan is based on advanced Intranet and Internet technology and runs in the well/known Internet Explorer (MS). The use of this browser tool minimizes time/consuming training times, and no advanced knowledge of CAD software or CAD knowledge as such are required.

COSMOplan supports the following standards:

- VDI 3814

- DIN 19227 and 1946

and for planning a such, it is neutral and independent as to the make of equipment.



COSMOplan[®]

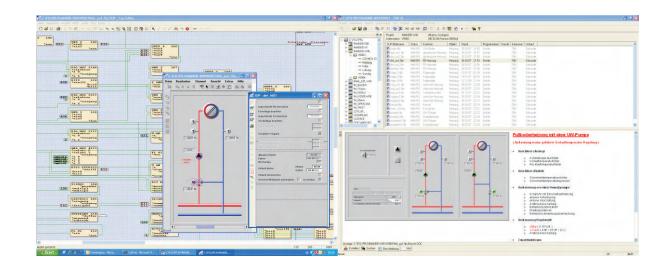
Software

OSMOplan		Туре
	COSMOplan planning tool	
	with completely new user surface and automatic interface for our programming and visualization tool FUP XL	
antin (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	COSMOplan	
	Full version - Single license License for one work place	DS-COSMOplan1
	COSMOplan	
	Full version - Triple license License for three work places	DS-COSMOplan3
	COSMOplan	
	Full version - Five ea. license License for five work places	DS-COSMOplan5
	COSMOplan	
	Full version- Ten ea. licence License for ten work places	DS-COSMOplan10
	COSMOplan Hotline software service contract	
	The contract covers support for the software product COSMOplan. The contract obliges the licensee to pay a net amount of 15% of the list price for each year of contract.	
	COSMOplan - Your corporate logo	DS-COSMOplan-logo
	Incorporating your logo into COSMOplan	
	COSMOplan online	DS-COSMOplan-online
	Online full version COSMOplan use via internet	
iert - Bart - B	Advantages: - control from everywhere - multi-place system - current server data - automatic data saving - automatic updates	



FUP XL

Software



Functional descriptions

Function plan programming software FUP XL for COSMOS OPEN / BASICline incl. dongle

- Graphics function planning editor
- Graphics editor for preparing of COSMOweb visualization
- Comprehensive module library for measuring and control and for heating/air-conditioning/ventilation systems
- Comprehensive module library for measuring and control and for heating/air-conditioning/ventilation systems which can be amended at random
- Preparing and managing of own function libraries.
- PC master processor / basis software
- Integrated development environment
- Compiler for target system COSMOS OPEN included

System requirements

Operating system	Windows 2000 / Windows XP
Data drive	CD-ROM
RAM	min. 512 MB RAM
Graphics	1280 x 1024 Pixel HiColor
Interface	for respective dongle, 1 free USB or
	1 free parallel port
Documentation	Word 2000 and up

Documentation Word 2000 and up Requirement for module inscriptions / descriptions depending on COSMOS components being used:

- COSMOS 500 RS232 interface for loading of programmes into controllers
- COSMOS OPEN TCP/IP for loading of programmes into controller

Software		Туре
	FUP XL** function plan programming software, full version, incl. technical support NOTE: To programme the system COSMOS BASICline, you also need the ANSI-C compiler.	DS-FUP XL**
	ANSI-C compiler for COSMOS BASICline Assembler kit incl. Bank-Linker for COSMOS 500 NOTE: The use of the ANSI-C compiler requires a parallel port at the computer.	DS-Ansi-C-Compiler

the software COSMOweb Professional (also refer to pages 6.1 - 4 and 11.1 - 2)

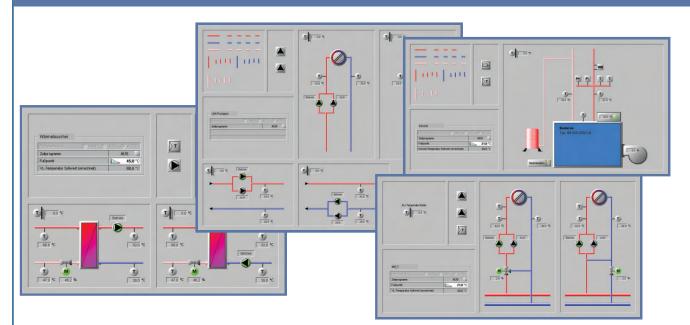
Products 2011 / 02



MacLib

Software

6.1



Functional descprition

MacLib

Macro library for efficient projecting and programming of heating/ ventilation/airconditioning systems. The macro library comprises both standard installation and comprehensive flexible special solutions.

The MacLib is fully integrated into the FUP XL development environment. Dynamic visualizations for COSMOweb are automatically generated through interplay of FUP XL and COSMOweb.

Excerpt from the macro functions

Excerpt for application with heating systems

- Weather-related boiler management (control of burner, 2-stage, 0-10 Volt or modulating)
- · Hot water boiler incl. anti-legionella programme and charging pump
- Static heating, weather-related management with optimized switching, RA temperature monitoring and circulating pump
- Floor heating, weather-related management with optimized switching and circulating pump

Excerpt for application with ventilation systems

- Add-air fan, 2-stage (external control via switch clock, summer nights cooling or cool-down protection)
- Extraction fan, 2-stage (external control or via switch clock)
- Exhaust air temperature control with heating valve / heat recovery / cooling valve (external rheostat for desired value)
- Filter monitoring for two filters (optional)
- Refrigerating machine with 2 compressors and one evaporator (temperature demand via outside air temperature and switch clock)

Excerpt for application with various equipment

- Calculating of 24 hour mean value of outside air temperature
- Assessing of highest desired value from up to 8 desired values (e.g. for boiler)
- time control with effective time extension

Software		Туре
	MacLib	DS-MacLib
	HVAC Macro library for the engineering tool FUP XL.	
	Software service support / contract	DS-MacLib/SPV
	The contract comprises update service for DS-MacLib. Agreement to this contract implies the licensee's obligation for paying the annual contract fees.	
NOTE : A training seminar is prerequisite for the purchase of the Macro Library. (Page 11.1 - 3)		