

savic-net™ FX

DSS (Data Storage Server)

Model BCY46300M

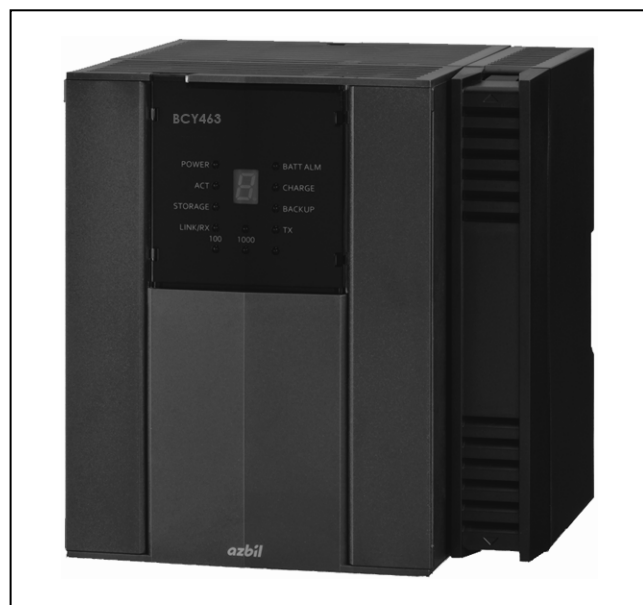
General

DSS (Data Storage Server) is a data server for **savic-net™ FX** BMS (building management system).

Data collected by SCS (System Core Server) is transmitted to DSS. DSS manages the data transmitted from SCS as BMS databases and provides the data to display/print historical trend graphs as well as daily, monthly and yearly reports. DSS also processes the data for 'user data processing' function.

4,000,000 data items (= data points to collect × collecting cycle × collecting period) of trend graph data, and besides, daily report (for 40 days), monthly report (for 13 months), and yearly report (for 10 years) data can be saved in the solid-state drive.

DSS Model BCY46300M conforms to all the applicable standards of CE Marking (Class A).



Specifications

Item	Specification
CPU	32-bit CPU
Main storage capacity	512 MB SDRAM
Auxiliary storage	SSD (Solid-State Drive)
OS	Linux
Max. BACnet objects	30,000 objects
Communication	BACnet® IP (Ethernet: 100BASE-TX / 1000BASE-T), 1 channel
Time backup	72 hours
Allowable voltage range	90 V AC to 264 V AC
Environmental operating conditions	5 °C to 40 °C (in operation) 10 %RH to 85 %RH (non-condensing) 2000 m or lower altitude
Dimensions (mm)	130 (W) × 120 (D) × 140 (H)
Weight	1.2 kg
Grounding condition	100 Ω or lower ground resistance

Model Numbers

Model number				Description
BCY46300				DSS base model number
	M			100 V AC to 240 V AC power * CE Marking (Class A) certified
		1		English version
		2		Chinese simplified version
		3		Chinese traditional version
		4		Korean version
			0 3	Fixed
			0	DIN rail mount type
			1	Sub panel mount type

CE Marking Conformity

This product must be installed in a panel cabinet. Besides, the product in the panel cabinet must be out of reach of unauthorized people who are not well-trained for electric facilities.

This product complies with the following Electromagnetic Compatibility (EMC) and the Low Voltage Directive (LVD).

EMC : EN61326-1 Class A, Table 2 (For use in an industrial electromagnetic environment)

LVD : EN61010-1 Overvoltage category II
Pollution degree 2



Dimensions

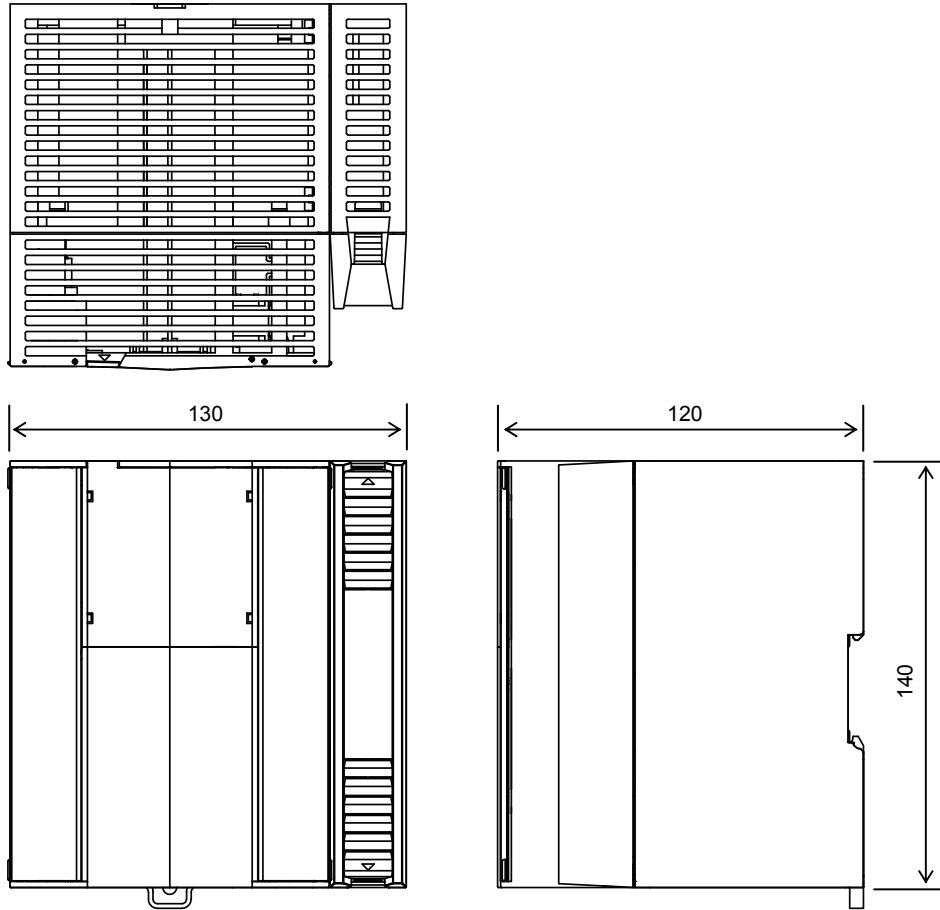


Figure 1. Dimensions of DSS (mm)

Safety Instructions

Please read instructions carefully and use the product as specified in this manual. Be sure to keep this manual near by for ready reference.

Usage Restrictions

This product is targeted for general air conditioning. Do not use this product in a situation where human life may be affected. If this product is used in a clean room or a place where reliability or control accuracy is particularly required, please contact Azbil Corporation's sales representative. Azbil Corporation will not bear any responsibility for the results produced by the operators.

⚠ CAUTION

- **!** Installation must be performed by qualified personnel in accordance with all applicable safety standards.
- **!** Use the product under the operating conditions (temperature, humidity, power, vibration, shock, mounting direction, atmospheric condition, etc.) as listed in the specifications.
Failure to do so might cause fire or device failure.
- **!** Use the product within the rated operating ranges as listed in the specifications.
Failure to do so might cause device failure.

Trademark information:

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 BACnet is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
 Ethernet is a U.S. registered trademark of Xerox Corporation.
 Linux is a trademark of Linus Torvalds.
 LonTalk is a trademark of Echelon Corporation registered in the United States and other countries.

System Configurations

savic-net FX BMS configuration

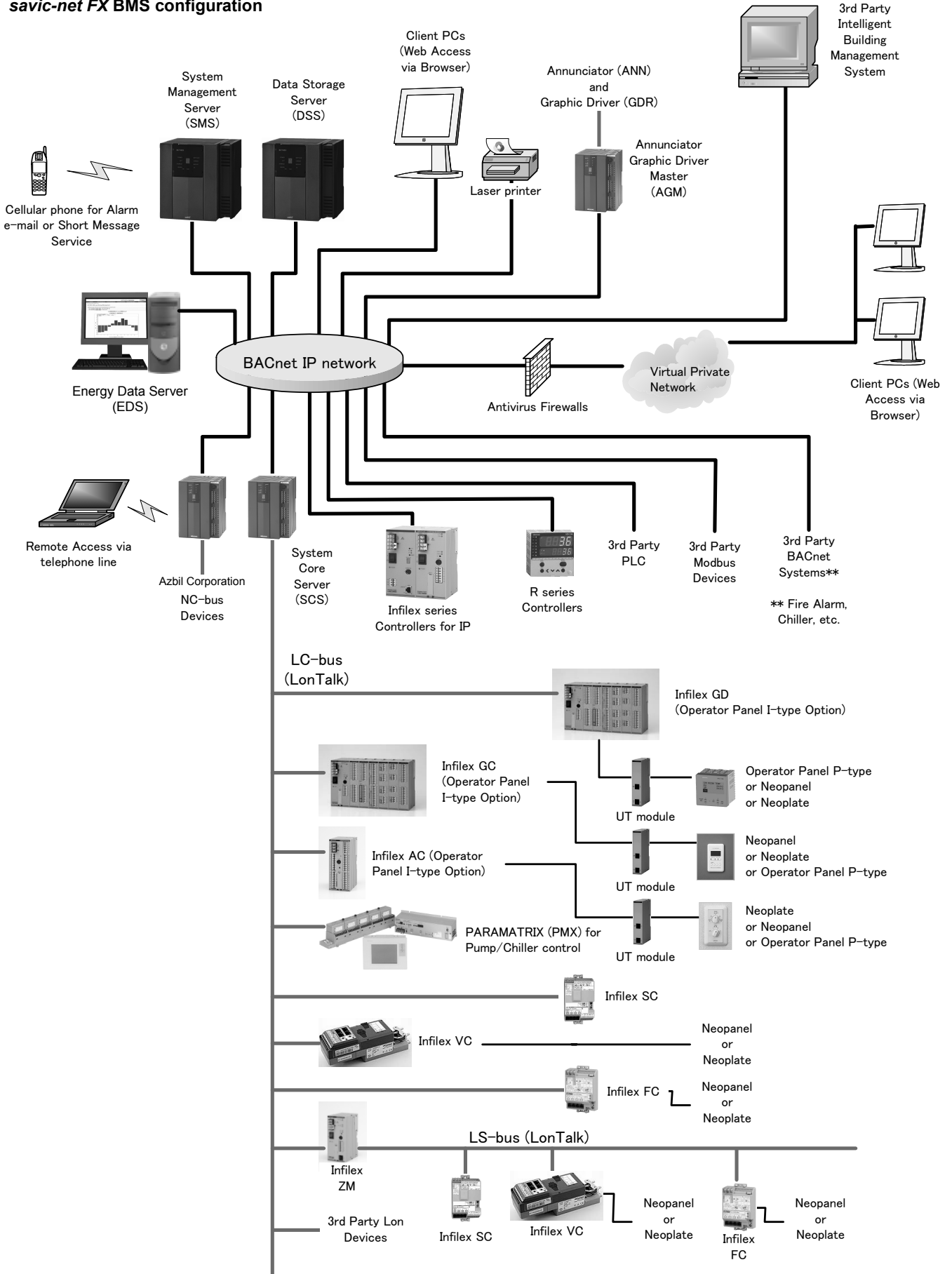


Figure 2. savic-net FX BMS configuration example

Items shown in Fig. 2 indicate the devices and protocols configuring the system. See Table 1 for the descriptions.

Table 1. Devices and protocols configuring *savic-net FX* system

Item	Description
AGM	Azbil Corporation's Annunciator/Graphic Driver Master
ANN	Annunciator
BACnet®	Data communication protocol for Building Automation and Control Networks (developed by ASHRAE)
DSS	Azbil Corporation's Data Storage Server
GDR	Graphic Driver
Infilex™ AC	Azbil Corporation's AHU (air handling unit) controller for LonTalk® protocol
Infilex™ FC	Azbil Corporation's FCU (fan coil unit) controller for LonTalk® protocol
Infilex™ GC	Azbil Corporation's multipurpose controller for LonTalk® protocol
Infilex™ GD	Azbil Corporation's multipurpose data gathering panel for LonTalk® protocol
Infilex™ SC	Azbil Corporation's AHU (air handling unit) controller for LonTalk® protocol
Infilex™ VC	Azbil Corporation's VAV (variable air volume) controller with damper actuator for LonTalk® protocol
Infilex™ ZM	Azbil Corporation's zone manager for LonTalk® protocol
IP	Internet Protocol
LC-bus	LonTalk® protocol Controller bus (provided by Azbil Corporation)
LonTalk®	Communication protocol for LONWORKS network
LS-bus	LonTalk® protocol Sub-controller bus (provided by Azbil Corporation)
Modbus	Serial communication protocol for PLC (developed by Modicon)
Neopanel	Azbil Corporation's digital user terminal
Neoplate	Azbil Corporation's analog user terminal
Operator Panel (I-type)	Azbil Corporation's Integral type Operator Panel
Operator Panel (P-type)	Azbil Corporation's Panel-mount type Operator Panel
PLC	Programmable Logic Controller
PMX	Azbil Corporation's PARAMATRIX™ DDC controller for LonTalk® protocol
R series controllers	Azbil Corporation's single loop controllers
SCS	Azbil Corporation's System Core Server
SMS	Azbil Corporation's System Management Server
UT module	Azbil Corporation's user terminal interface



Specifications are subject to change without notice.

Azbil Corporation
Building Systems Company

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