

# savic-net™ FX

## MIS (Management Integration Server)

### Model BCY45301M

#### General

MIS (Management Integration Server) is a Web-based data server for *savic-net™ FX* BMS (building management system).

MIS provides all the management information (object, program, etc.) of BMS. Management information can be displayed, set (modified), and operated with a client PC via Web browser.

MIS also keeps track of alarm reported, operating/setting information, and operating status change. MIS, in other words, saves the historical data into its solid-state drive.

In addition, MIS manages the screens to show in the client PC display. Monitoring screens, operating screens, and other Graphic Displays are managed by MIS.

Data collected by SCS (System Core Server) is transmitted to MIS. MIS 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. MIS 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 hard disk.



MIS Model BCY45301M 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	5,000 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)
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
BCY45301				MIS 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



**Dimensions**

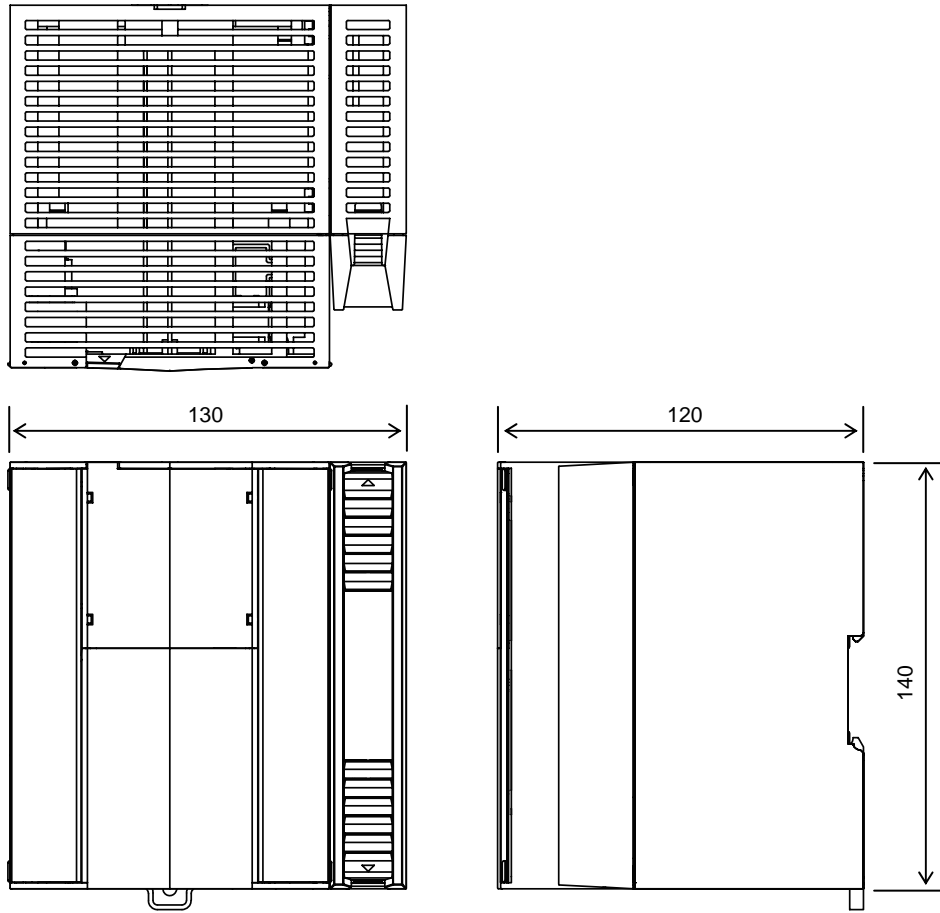


Figure 1. Dimensions of MIS (mm)

**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 Yamatake's sales representative. Yamatake 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.

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 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

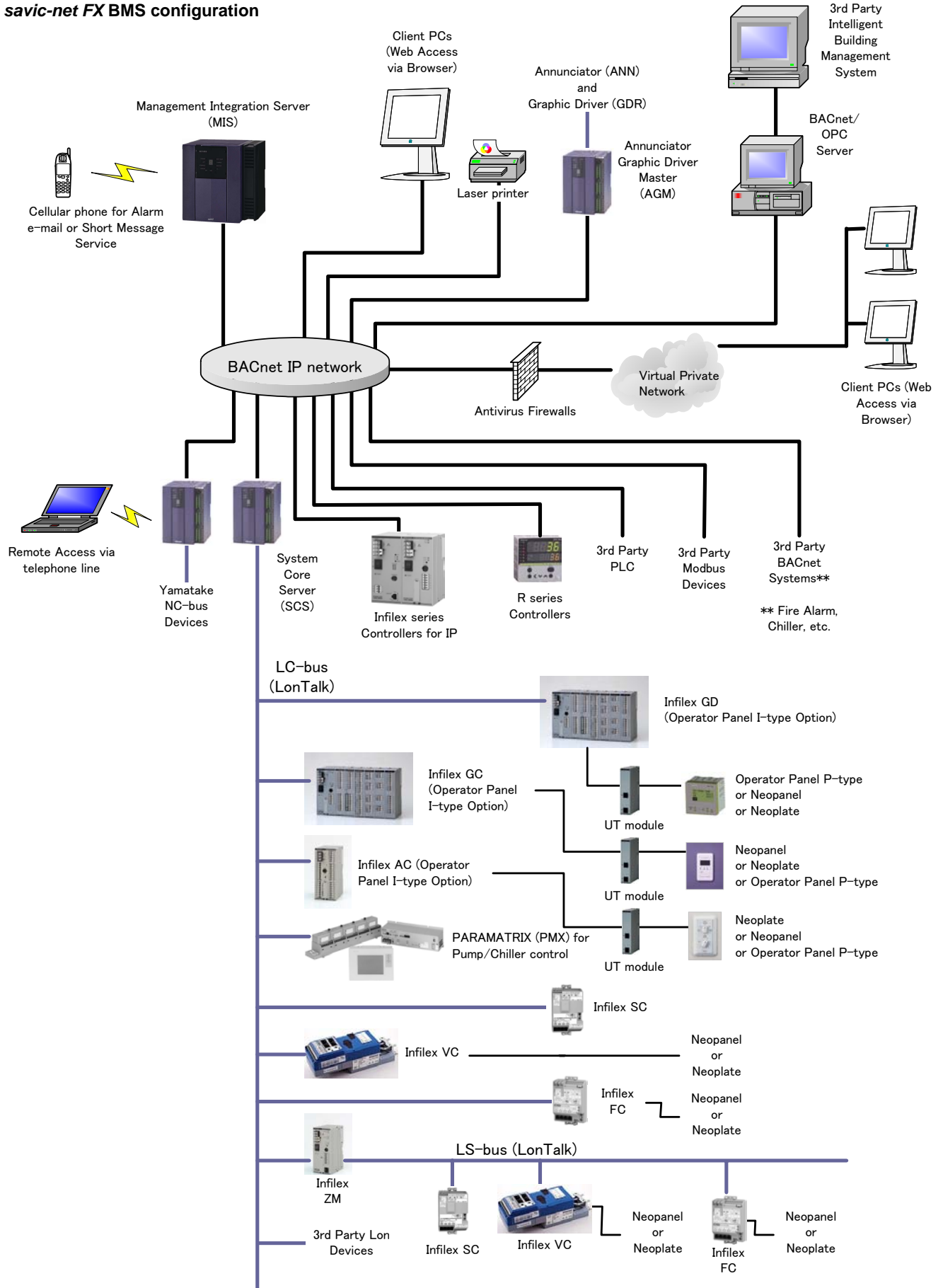


Figure 2. savic-net FX BMS configuration example

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



*Specifications are subject to change without notice.*

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