

|                   |       |
|-------------------|-------|
| Job Name:         |       |
| System Reference: | Date: |

**OVERVIEW**

The BACnet® function can be used when connecting AE-200/AE-50/EW-50 to the open network BACnet® that is used for the building management system. Connected air conditioning units can be monitored and operated not only from the existing web browser or the AE-200/AE-50's LCD, but also from the building management system using the BACnet® communication protocol.

BACnet® communication now communicates from a centralized controller's LAN2 port.

**LICENSES**

- SW-BACnet Master
  - Master Controller license for AE-200A and EW-50A
- SW-BACnet Expansion
  - Expansion Controller license for AE-50A and EW-50A

**SW-BACnet SPECIFICATIONS**

- Control up to 50 groups
  - 1 to 16 indoor units can be collectively controlled in a group
  - Supports dual set-point functionality (connected model dependent)
- See page 3 for Points List
- BTL Compliant
- BACnet® communication specifications are based on ANSI/ASHRAE Standard 135-2010



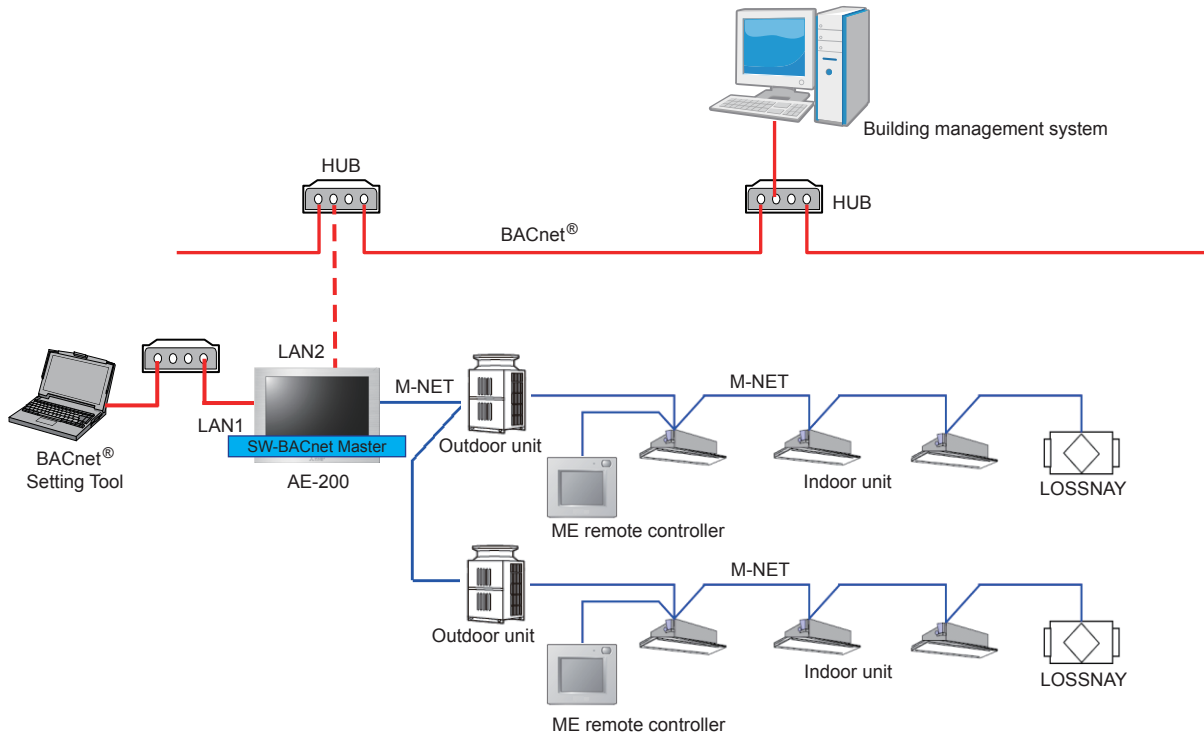
**PC REQUIREMENTS**

The BACnet® Setting Tool is dedicated software to set network settings and settings related to BACnet® communication (also including object selection and COV/Event notification) and then set the settings to the centralized controller.

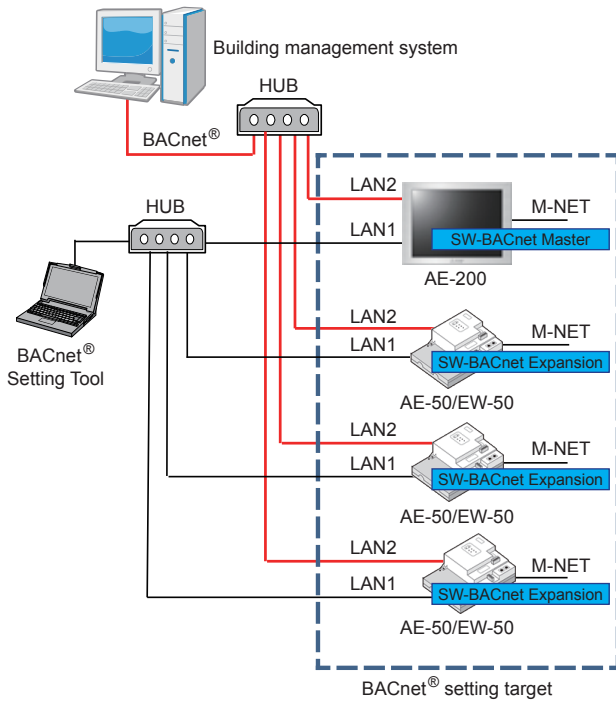
The PC used for the BACnet® Setting Tool requires the following environment.

| Item                  | Requirement   | Remarks |
|-----------------------|---|---------|
| CPU                   | 1 GHz or higher   |         |
| Memory                | 1 GB or more  |         |
| HDD space             | 100 MB or more  | C drive |
| Screen resolution     | 1024 x 768 or higher  |         |
| LAN                   | 1 port (100 BASE-TX)  |         |
| OS                    | Microsoft® Windows® 7 32-bit/64-bit<br>Microsoft® Windows® 8.1 32-bit/64-bit<br>* Not compatible to Windows Vista®. |         |
| Execution environment | Microsoft® .NET Framework 4.5 or later  |         |
| Others                | Pointing device such as a mouse<br>Internet connection environment (required when installing .NET Framework)        |         |

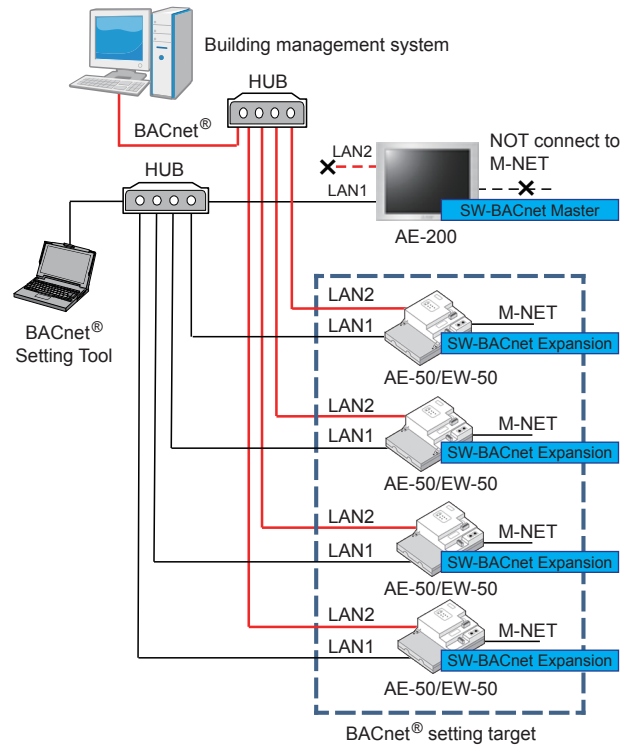
# Model: SW-BACnet - System Example



(A) When controlling more than 50 units of equipment and not using an apportioned electricity billing function



(B) When using an apportioned electricity billing function



## Model: AE-200/AE-50/EW-50 BACnet® Points List

| Object List   |
|---|
| On Off Setup  |
| On Off State, Number of ON/OFF, Cumulative operation time                         |
| Alarm Signal (Binary code with a 4 digit code outputted to the AE-200)            |
| Error Code  |
| Operational Mode Setup  |
| Operational Mode State  |
| Fan Speed Setup   |
| Fan Speed State   |
| Room Temp [Water Temp]  |
| Set Temp [Set Water Temp]   |
| Set Temp Cool   |
| Set Temp Heat   |
| Set Temp Auto   |
| Filter Sign [Circulating Water Exchange Sign]                                     |
| Filter Sign Reset [Circulating Water Exchange Sign Reset]                         |
| Prohibition On Off  |
| Prohibition Mode  |
| Prohibition Filter Sign Reset [Prohibition Circulating Water Exchange Sign Reset] |
| Prohibition Set Temperature   |
| M-NET Communication State   |
| System Forced Off   |
| Air Direction Setup   |
| Air Direction State   |
| Set High Limit Setback Temp   |
| Set Low Limit Setback Temp  |
| Ventilation Mode Setup  |
| Ventilation Mode State  |
| Air To Water Mode Setup   |
| Air To Water Mode State   |
| System Alarm Signal (4-digit error code)  |
| PI Controller Alarm Signal (4-digit error code)                                   |
| Group Apportioned Electric Energy   |
| Interlocked Units Apportioned Electric Energy                                     |
| PI controller Electric Energy 1-4   |
| Pulse Input Electric Energy 1-4   |
| Group Apportionment Parameter   |
| Interlocked Units Apportionment Parameter   |
| Night Purge State   |
| Thermo On Off State   |
| Trend Log Room Temp   |
| Trend Log Group Apportioned Electric Energy                                       |
| Trend Log Interlocked Units Apportioned Electric Energy                           |
| Trend Log PI controller Electric Energy 1-4                                       |
| Trend Log Pulse Input Electric Energy 1-4   |
| Trend Log Group Apportionment Parameter   |
| Trend Log Interlocked Units Apportionment Parameter                               |

