MONITOUCH PLUS EXPRESS
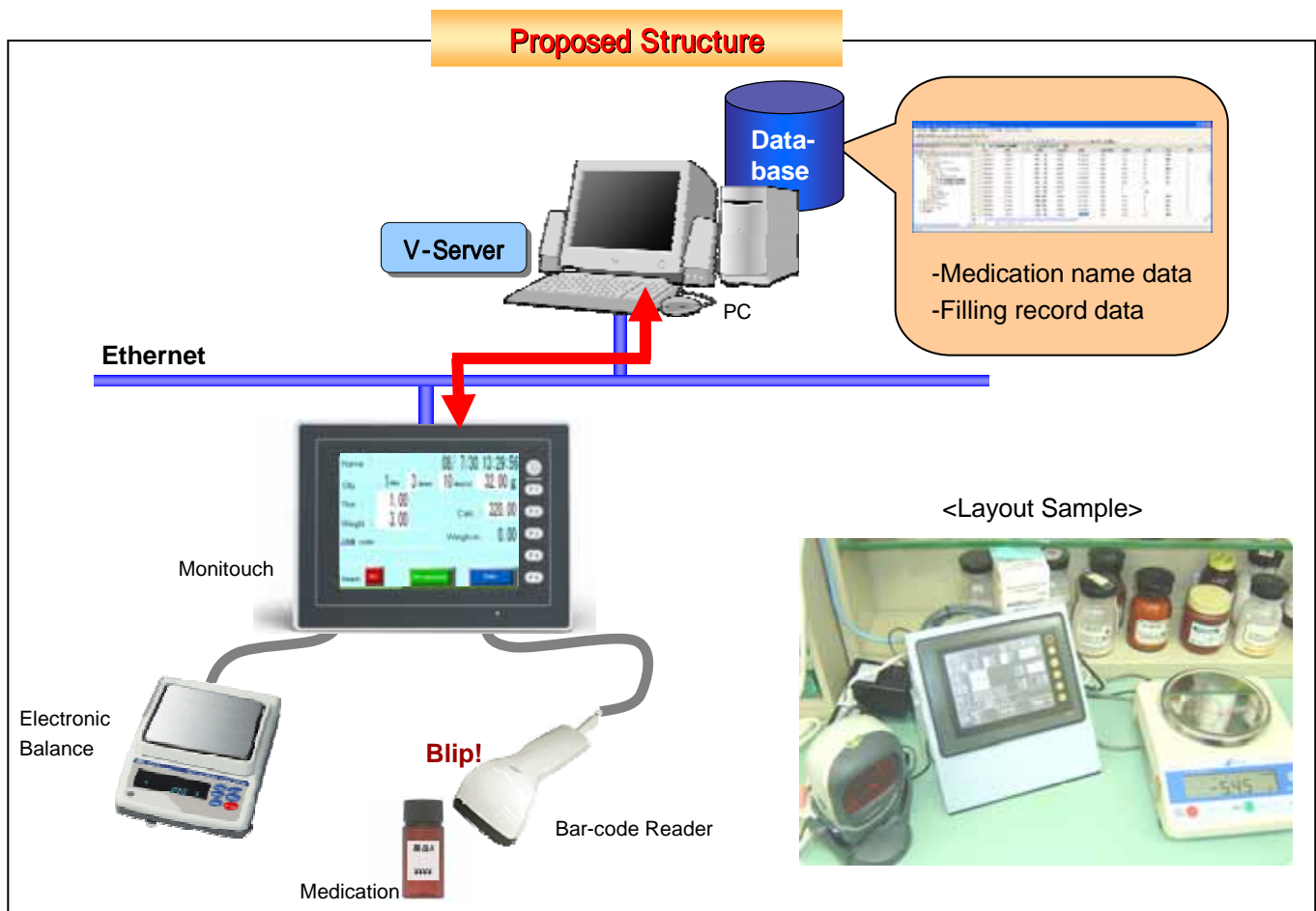
Medicinal Powder Audit System (Traceability)

Background

After the medicinal powders were filled, visual check and final mass verification of the medication were formerly performed by different person from the one who have actually handled filling.

This system was introduced to computerize the filling record and to simplify the operation.

Proposed Structure

- Data-base
- V-Server
- PC
- Medication name data
- Filling record data
- Ethernet
- Monitouch
- Electronic Balance
- **Blip!**
- Bar-code Reader
- Medication

<Layout Sample>

System Configuration

1) Electronic balance for measuring and bar-code reader for reading the name of the medication are connected to Monitouch.

2) PC and Monitouch shall be connected via Ethernet.

Nuts and Bolts of Improvement

1) Traceability

Measured data delivered to Monitouch will be saved in the database via Ethernet.

Relevant information will be printed on the receipt printer when filling has finished.

2) Confirming Work Automation

Automatic comparison and determination of the prescription data, measured value, and medication, previously managed in the database, are possible.

Automated confirming work helps the workers to perform the filling by themselves without anxiety.

Nuts and Bolts of System Realization
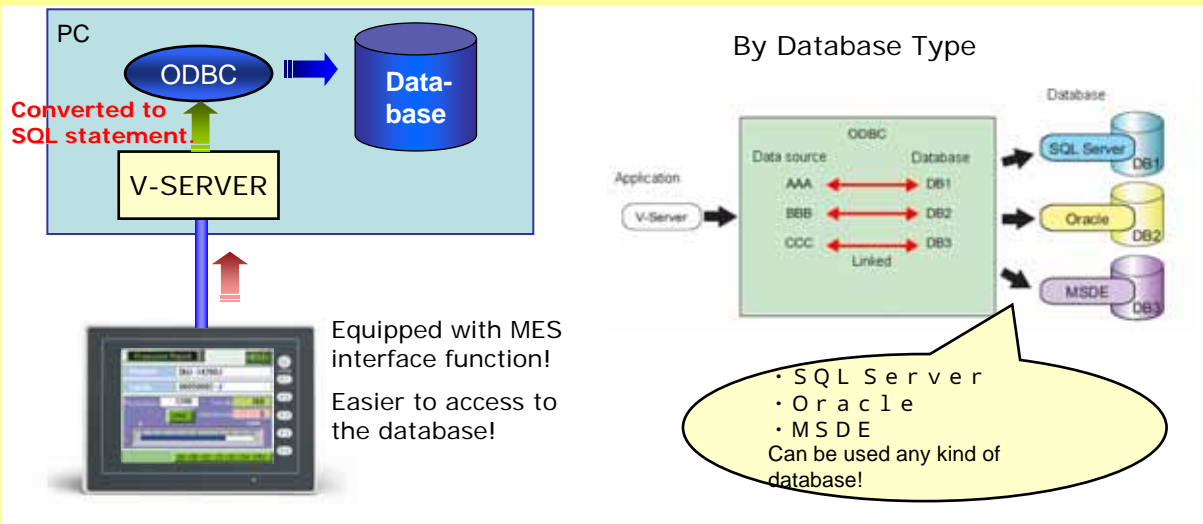
1) 8-Way Communication

"8-way communication" is the function, which enables the connection among a V8 and up to eight kinds of devices consisting of PLCs and peripherals of different manufacturers with the combination of the Ethernet connection and the serial connection.

→ **The bar-code reader and the electronic balance can be used at the same time.**

2) MES[1] Interface Function[2]

Various kinds of information such as the data of production records, defect quantity, and error causes can be sent to the MES database server via V-Server in SQL statement. Communication with the database is possible without the gateway PC or complicated programming.

→ **It is simply possible to read the data of the bar-code attached on the medication, to search/display the medication name in the database, and to record the result of filling in the database.**

PC

ODBC

Converted to SQL statement.

Data-base

V-SERVER

Equipped with MES interface function!

Easier to access to the database!

By Database Type

Database

ODBC

Application — V-Server

Data source		Database
AAA	↔	DB1
BBB	↔	DB2
CCC	↔	DB3

Linked

SQL Server DB1

Oracle DB2

MSDE DB3

Can be used any kind of database!

*[MES] Manufacturing Execution System

It refers to the "Manufacturing Execution System," which is the management/production control system for optimizing product quality, product quantity, delivery date, cost, and etc. at production sites.

*2 Available from V-SFT-5 Ver.5.2.0.0 in V8.

Free version upgrade of the configuration software V-SFT 5

The configuration software (updated version) can be downloaded from the following website.

Website:

http://www.hakko-elec.co.jp/en/download/09vsft5/index.html#02