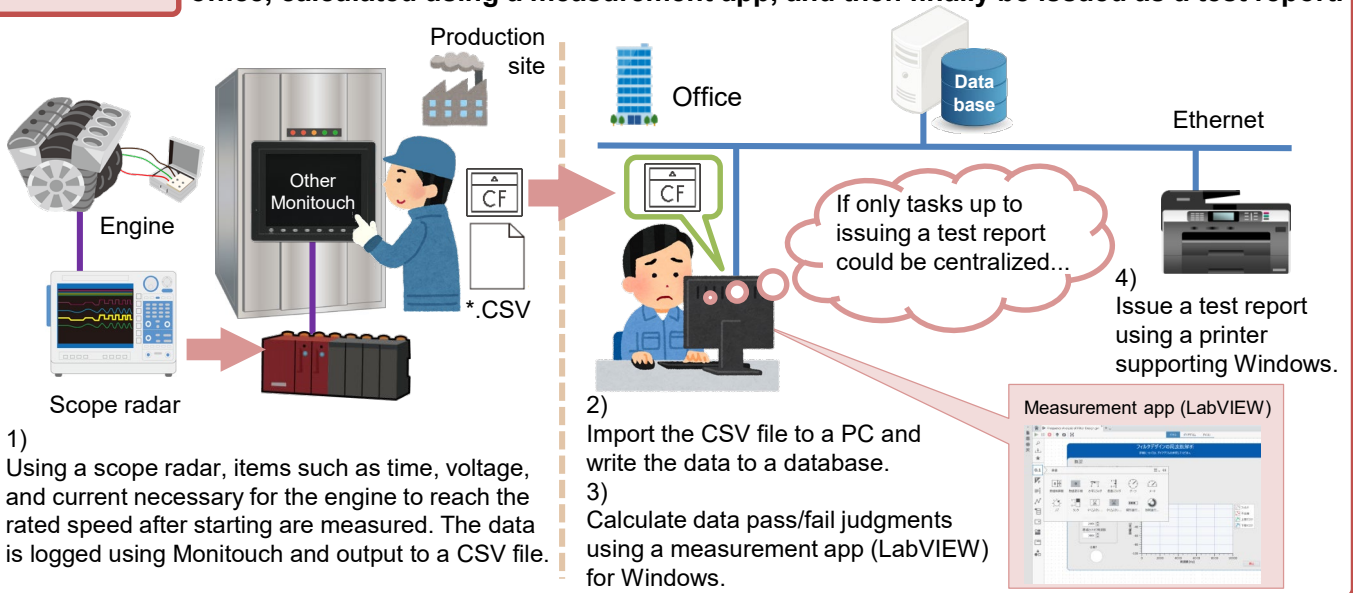# <Proposal for Work Reduction>
Automation of Data Input by Introducing the X1 Series

Before Measurement data (on a CF card) needs to be taken from the production site to the office, calculated using a measurement app, and then finally be issued as a test report.

Production site

Office

Data base

Ethernet

Other Monitouch

CF

*.CSV

Engine

Scope radar

If only tasks up to issuing a test report could be centralized...

4) Issue a test report using a printer supporting Windows.

Measurement app (LabVIEW)

1) Using a scope radar, items such as time, voltage, and current necessary for the engine to reach the rated speed after starting are measured. The data is logged using Monitouch and output to a CSV file.

2) Import the CSV file to a PC and write the data to a database.

3) Calculate data pass/fail judgments using a measurement app (LabVIEW) for Windows.
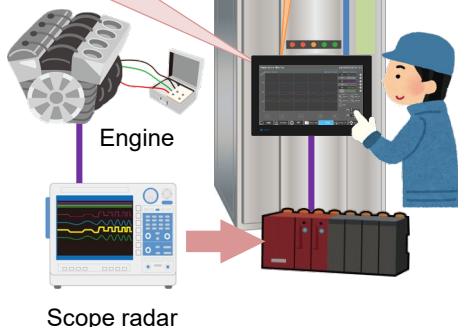
Optimize by using the X1 series!

After One X1 series unit can play three roles! Automate data input to drastically reduce work!

- Automatic writing of measurement data (using the MES interface function)
- Running the measurement app (starting a Windows app)
- Issuing a test report (connecting to a printer supporting Windows)

Production site

2) Start the measurement app.

Ethernet

Data base

Engine

Scope radar

1) Automatically write measurement data into a database.

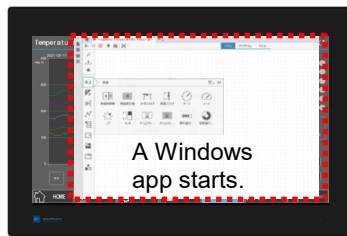3) Issue a test report using a printer supporting Windows.

All processes can be done by just operating the X1 series unit!

Convenient X1 series functions: Starting and tiling apps and switching between apps
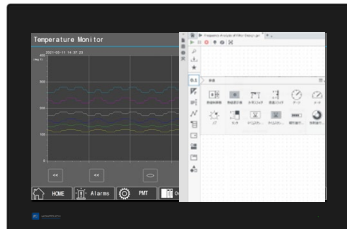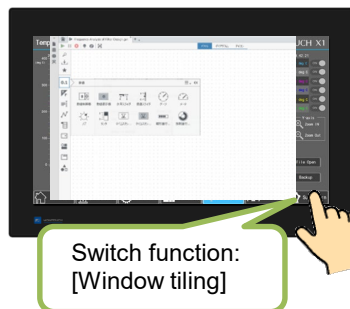
Starting an app

Use the "HMI-USEREXE" macro command.

Execute "HMI-USEREXE" as a switch ON macro command.

A Windows app starts.

* For information on macro commands, refer to the X1 Series Reference Manual 2 or the V9 Series Macro Reference Manual.

Tiling app windows

App windows can be tiled by pressing a switch with the [Function] set to [Window tiling].
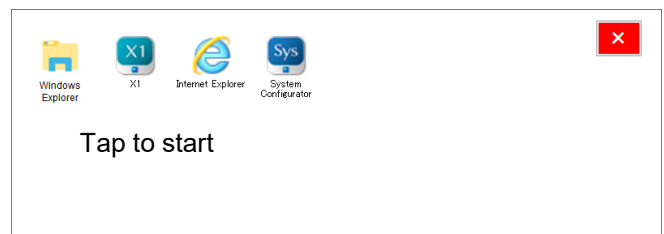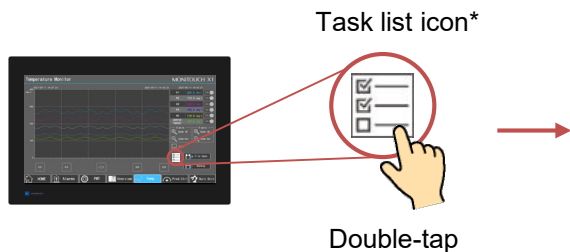
Switch function: [Window tiling]

Being able to tile the HMI screen and a Windows app and also operate them is very convenient!

Switching between apps

Show a list of currently running apps by tapping the task list icon and select the app to switch to.

Task list icon*

Windows Explorer   X1   Internet Explorer   System Configurator

Tap to start

Double-tap

* Specify whether to show or hide the task list icon using System Configurator.
For details, refer to the X1 Series Hardware Specifications.

Build a smart production site by introducing the X1 series!