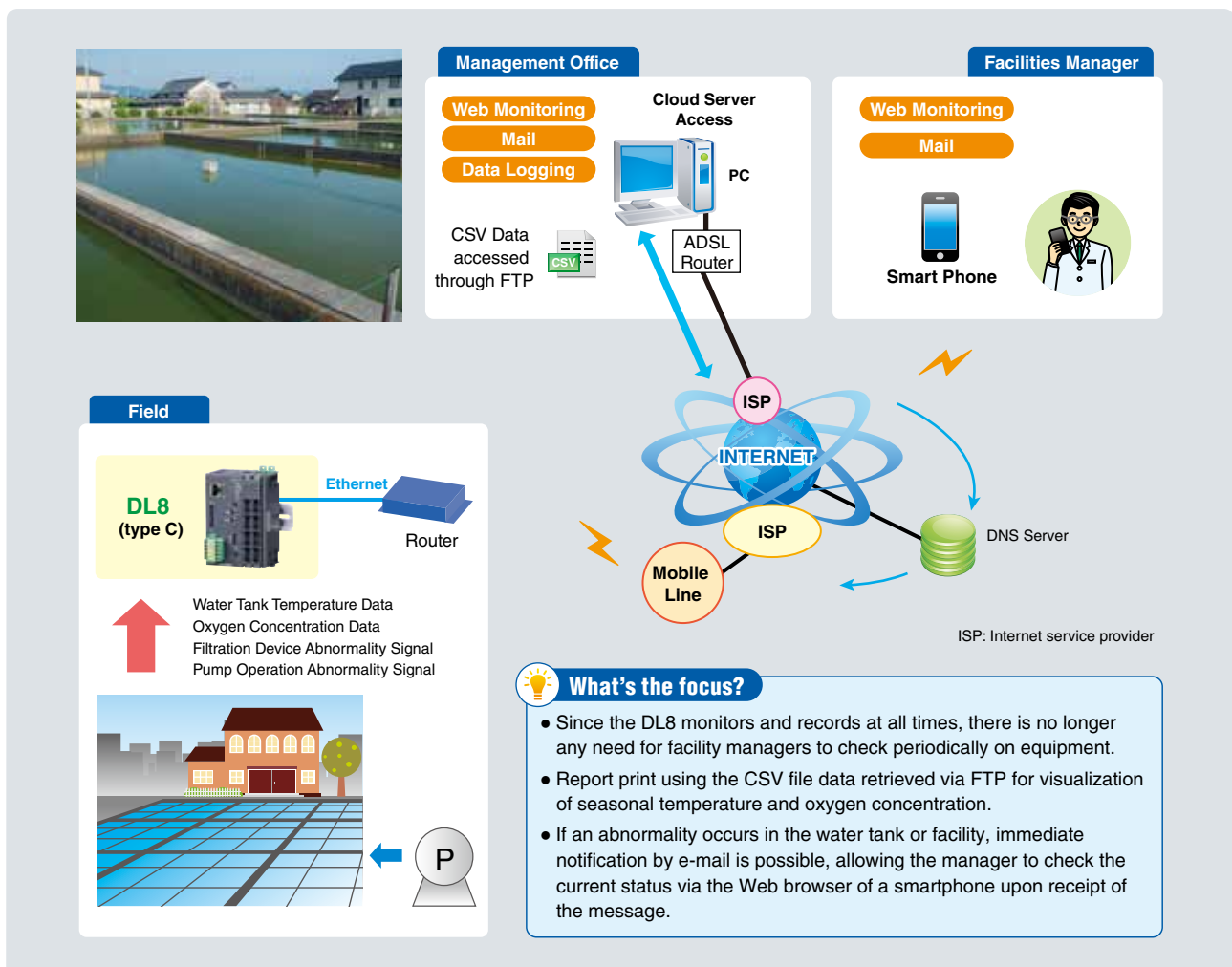# AQUACULTURE FARMS

Applicable Area : Aquaculture Farms

Application　　 : Remote Monitoring of Fish Farms

■ At fish farms on land, the temperature and oxygen concentration are critical objects used to control the water tanks. Signals measured by temeprature sensor and dissolved oxigen analyzer are provided to the DL8.
Fish farms also record operating times by inputting signals from filtration devices and pump operation. These are important for water quality, and are regularly recorded to a computer at the management office or sent by email to the smartphone of the facilities manager.

■ When installed in conjunction with a mobile router, the DL8 sends an e-mail over the mobile phone network to the facilities manager when an abnormality in water tank level or oxygen concentration occurs.
The DL8 unit also operates as an FTP server, allowing the temperature and dissolved oxygen data stored in its SD card (CSV file) to be retrieved from the control center.

Management Office

Web Monitoring

Mail

Data Logging

Cloud Server Access

CSV Data accessed through FTP

CSV

PC

ADSL Router

Facilities Manager

Web Monitoring

Mail

Smart Phone

Field

DL8 (type C)

Ethernet

Router

Water Tank Temperature Data
Oxygen Concentration Data
Filtration Device Abnormality Signal
Pump Operation Abnormality Signal

P

ISP

INTERNET

ISP

DNS Server

Mobile Line

ISP: Internet service provider

What's the focus?

● Since the DL8 monitors and records at all times, there is no longer any need for facility managers to check periodically on equipment.

● Report print using the CSV file data retrieved via FTP for visualization of seasonal temperature and oxygen concentration.

● If an abnormality occurs in the water tank or facility, immediate notification by e-mail is possible, allowing the manager to check the current status via the Web browser of a smartphone upon receipt of the message.

• Web browsed views are images that are subject to change without notice.　• In order to effect the applications on this page, static IP or dynamic DNS is required.
• M-System Company does not provide smart phones and/or telecommunication services.