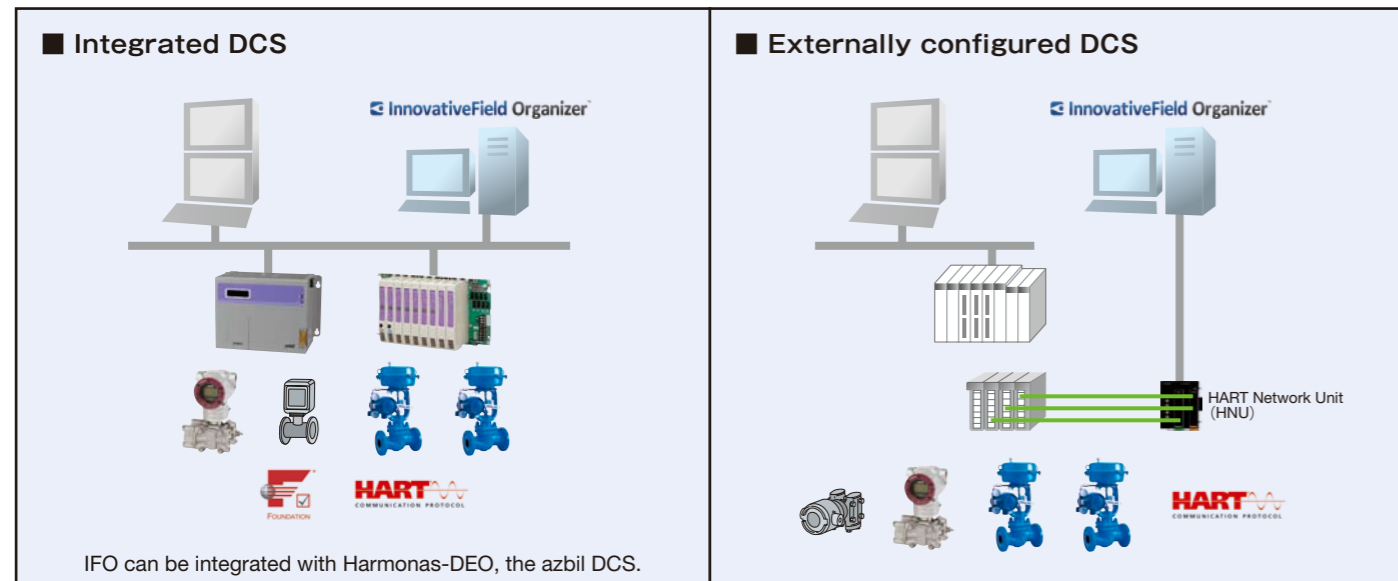


▶ System configuration



▶ HART devices

Smart Valve Positioner 700 series

Smart Valve Positioner 300 series

Smart Valve Positioner 200 series

ST3000 Ace Electronic Differential Pressure/Pressure Transmitter

Smart Pressure Transmitter Model PTG

ThermoPLUS Advanced Temperature Transmitter

MagneW™ 3000 PLUS+ Smart Electromagnetic Flowmeter

MagneW Two-wire PLUS+ Smart Two-wire Electromagnetic Flowmeter

HART COMMUNICATION PROTOCOL

▶ FOUNDATION Fieldbus devices

Smart Valve Positioner 300 series

Smart Valve Positioner 700 series

Smart Valve Positioner 200 series

ST3000 Ace Electronic Differential Pressure/Pressure Transmitter

AT9000 Advanced Electronic Differential Pressure/Pressure Transmitter Model GTX

MagneW 3000 PLUS+ Smart Electromagnetic Flowmeter

Third-party devices

FOUNDATION



Device Management System  
**InnovativeField Organizer™**

For top performance from field devices

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 • HART is a registered trademark of HART Communication Foundation.  
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# Optimizes instrumentation maintenance work by device management following the maintenance workflow.

By digital communication with field devices, instead of conventional 4–20 mA signals, InnovativeField Organizer™ (IFO) makes maximum use of diagnostic and maintenance information provided by devices, improve efficiency of field and plant operation.

## Execution of loop checks or control valve step response tests

**Conventional method**  
One operator in the control room and several field personnel conduct checks for several days.

**With IFO...**  
Start an IFO loop check or control valve step test before going home, and the results will be waiting at the office the next morning.

**More efficient check work before operation start-up**

**Efficient daily maintenance work**

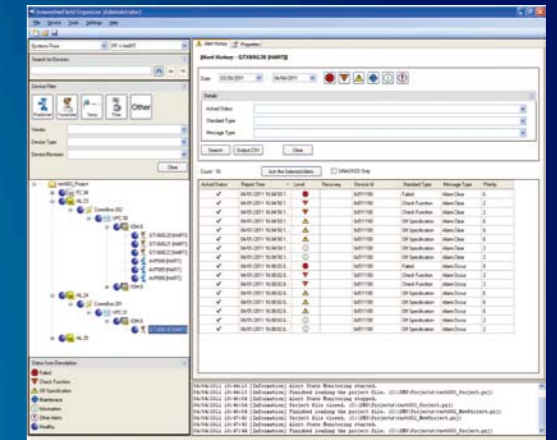
During plant operation, operator is informed that a device is not working normally.

**Conventional method**  
When anything abnormal is reported, the maintenance staff goes to the site to see the problem.

**With IFO...**  
Because instrument conditions can be checked on the IFO screen without going to the site, the maintenance staff goes to the site only if necessary.

**IFO, not the maintenance staff, monitors devices 24 hours a day, 365 days a year**

IFO monitors how field devices are operating. If any abnormality is detected, it alerts maintenance staff and operators so that they can take prompt action.



## IFO dramatically improves loop check performance

■ In a single step, check site devices to see if they are alive and connected.

**Spot an offline device at a glance.**



■ 3-point check for 100 loops (100 transmitters)

**Conventional method**  
Requires 2 persons (1 pair) for at least 3 days.

**With IFO**  
Done in 2 hours.

**20 times efficiency**

■ Step response test for 42 control valves

**Conventional method**  
Requires 2 persons for 8 hours.

**With IFO**  
Done in 45 minutes.



**Prevention of shutdowns caused by device abnormality**

## Early detection of problems by patrol inspection

**Conventional method**  
Work site patrol to check whether instrument readings differ dramatically from the previous day's

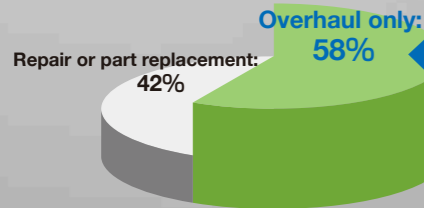
**With IFO...**  
Upon arrival in the morning, check the IFO screen for device abnormality or messages about required maintenance. If there is any problem, check the details screen and take countermeasures before a malfunction occurs.

## Lists the control valves to be checked.

**Conventional method**  
Maintenance schedules are based on time, so valve is checked regardless of deterioration level.

**With IFO...**  
Valves to be tested are listed by level of deterioration, as determined by diagnostic parameters recorded by IFO during operation that indicate clogging, seizure, or leakage, or by step test executed after shutdown.

**Optimization of valve overhaul during SDM**



Checks in this section are optimized by maintenance based on valve condition.

Breakdown of control valve maintenance undertaken by Azbil Corporation

## Control valve online monitoring

By monitoring control valves online using the diagnostic functions of Azbil Corporation's Smart Valve Positioner, plant troubles that are caused by control valve problems may be lessened through early detection.



Case example from a chemical plant. By using zero point angle diagnostics for the control valve, the customer discovered foreign matter on the seat ring that was causing sticking.

