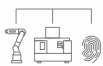


# Connect, monitor, think & drive

**FANUC** Intelligent Edge Link & Drive system



**CONNECT**

various devices across manufacturers  
and generations



**MONITOR**

analyse and improve



**THINK**

with AI to realise smart  
automation and optimisation



**DRIVE**

and control edge equipment  
close to real time



FIELD system Manager

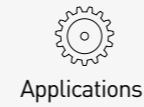
FIELD system Store

CLOUD

CLOUD



FANUC Applications



Applications



3rd AI Party Applications

OPEN PLATFORM

# FIELD system

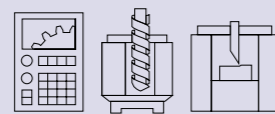


User data (on-premise)

FOG

FOG

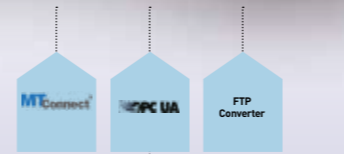
EDGE HEAVY



FANUC's CNCs



FANUC's Robots



Non FANUC machine tools, robots, industrial machines, PLC, etc.



Dedicated Converters



Sensors, Exclusive machines etc.

EDGE

EDGE

## FIELD system



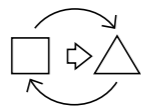
### CONNECT EVERYTHING

- > Ability to connect not only the latest FANUC products but also to existing machinery in the factory
- > General-purpose communication standard, such as OPC UA, MT Connect and FTP Converter will also be supported
- > FANUC will provide a software development environment where production device manufacturers can create and provide converters for their production devices

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### EDGE HEAVY

Processes valuable data from production devices at the production site. Contributes to the improvement of production efficiency by quickly processing site data with fast response times.



### DEDICATED CONVERTERS

FANUC and production device manufacturers provide communication software applications that support many different communication standards and production devices.



### APPLICATIONS

Not only FANUC, but application developers and customers who use the system can also develop necessary applications and use them on the FIELD system.



### MULTILAYER DEFENSE SECURITY

The FIELD system is configured with a multilayer defense system that employs multiple security technologies on all the layers, that is server, network and the FIELD system BOX.

The FIELD system Manager and the FIELD system Store adopt multiple security technologies such as integrated threat management and security software.

The FIELD system installed in the factory controls access to determine whether to permit access to user data, application data, and production device data. In the case where an application fails, data accesses except for predefined ones are blocked. Unnecessary access is limited between production devices. The network switch and other devices separate networks in the factory, control paths, and identify production devices.

## PLATFORM ECOSYSTEM



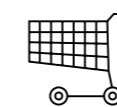
### FIELD system PARTNERS

- > FIELD system Partners collaborate with FANUC in promoting, selling, securely installing and maintaining FANUC FIELD system at customers' premise. Depending on their profile Partners take care of integrating FANUC products, of assuring cyber security network integration of FIELD system and of developing useful applications and converters for edge devices.



### FIELD system MANAGER

Located in the Cloud, the FIELD system Manager manages whether the FIELD system in the factory is operating normally.



### FIELD system STORE

- > Once applications and converters to be used on FIELD system pass the review process conducted by FANUC, they are available in the FIELD system Store and can be purchased, downloaded and installed from there
- > You can easily check the latest versions of applications and converters and update your current applications and converters
- > You can also check your purchased history or get quotations



### CALL CENTER

Responds to inquiries from end users, integrators, and application developers.

## EXAMPLE APPLICATIONS



### FIELD system PMA-MONITOR

- > A lightweight dashboard providing a simple overview of connected devices and operation statuses
- > Individual monitoring allows to see running status of devices, production data and alarm history
- > Data can be visualised via resultant graphs of production amounts
- > Data is exported in CSV




### FIELD system ZDT (zero down time)

- > Is an application to reduce unexpected downtime of production devices
- > Monitors the statuses of FANUC CNCs and Robots and generates error alerts
- > Notifies the user of periodical maintenance and encourages preventive maintenance
- > Reduces maintenance costs and the workload of maintenance staff by centrally managing the maintenance statuses of production devices

# Why FIELD system?



**Improve**  
machines uptime



**Reduce**  
energy consumption



**Reduce**  
cost of consumables



**Improve**  
process quality



**Increase**  
Overall Equipment  
Efficiency (OEE)

## Connectivity system configuration



### FIELD system Manager

License info  
Maintenance info etc.

### FIELD system Store



INTERNET



ON-PREMISE



### Network switch/gate



**Local server**  
User data ERP/SCM/  
MES etc.



< Small-scale system

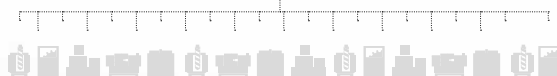


> Large-scale system <

### FIELD system FIELD BASE Pro



Network switch



**Connects  
to about 30 devices**  
Production devices such as  
CNCs, ROBOTS, ROBOMACHINEs,  
sensors and other third party devices

### FIELD system Cisco UCS



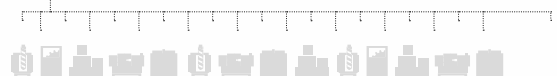
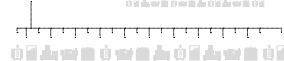
Network switch



Network switch



Local server



**Connects  
to about 150 devices**  
Production devices such as  
CNCs, ROBOTS, ROBOMACHINEs,  
sensors and other third party devices