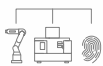# Connect, monitor, think & drive

FANUC Intelligent Edge Link & Drive system

FIELD system

CONNECT
various devices across manufacturers and generations

MONITOR
analyse and improve

THINK
with AI to realise smart automation and optimisation

DRIVE
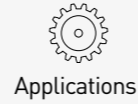and control edge equipment close to real time

FIELD system Manager   **FIELD system Store**

CLOUD

CLOUD

OPEN PLATFORM

FANUC Applications

FIELD system

Applications

3rd AI Party Applications

User data (on-premise)

FOG

FOG

EDGE HEAVY

MTConnect   OPC UA   FTP Converter

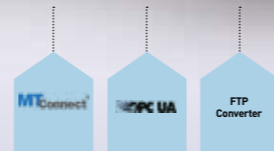**Dedicated Converters**
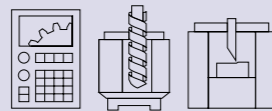
EDGE

FANUC's CNCs

FANUC's Robots

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

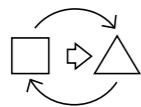Sensors, Exclusive machines etc.

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 stand-ard, 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

10100100100
1010110110
10010010111
1010010101
0101001001
0010101101

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 seperate networks in the factory, control paths, and identify productions devices.

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.
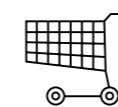

PLATFORM ECOSYSTEM

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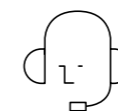
FIELD system STORE
> Once applications and converters to be used on FIELD system pass the review process conducted by FANUC, they are available in the FIELD system Store and can be purchased, downloaded and installed from there
> You can easily check the latest versions of applications and converters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

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

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
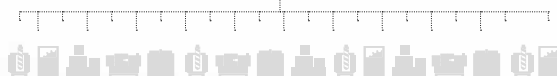User data ERP/SCM/
MES etc.

< Small-scale system

Large-scale system >

**FIELD system
FIELD BASE Pro**

**FIELD system
Cisco UCS**

Network switch

Network switch

Hálózati kapcsoló

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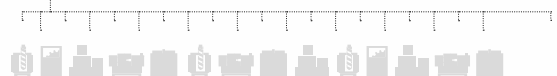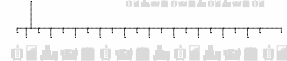CNCs, ROBOTS, ROBOMACHINEs,
sensors and other third party devices

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