

WORLDWIDE LEADER IN POWER MONITORING

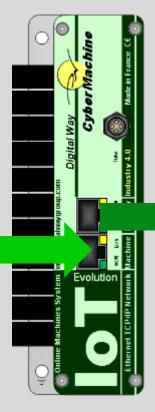
CyberMachine – Waht is it?



The CyberMachine system is a single DIN rail-mounted box (165 mm x 120 mm x 59 mm) powered by 24 VDC installed in the electric cabinet of the machine and connected to the **machine network** and the **factory network**.

Machine Ethernet Network

Private network of the machine



Factory Ethernet Network

Network common to all machines in the factory

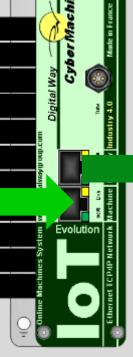
CyberMachine – For what?



The CyberMachine system captures and collects data on the machine's network, stores machining data, makes statistics and formats data to provides data available on the company network.

Machine Ethernet Network

Data from the machine



Factory Ethernet Network

Statistics and data available on the factory network

CyberMachine – How can do?



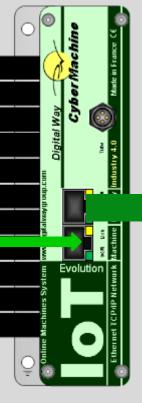








Machine Ethernet Network





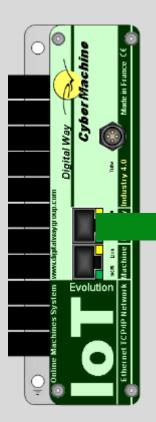
TOOL WEAR & BREAKAGE MONITORING SYSTEM

The CyberMachine system is connected to NC Siemens, WattPilote and SafePilote and receive **power** and **vibration data** during machining but also **QR Code** of the workpiece and values from each sensor connected on the Siemens system (temperature and coolant pressure, spindle speed and federate ...).

Factory Ethernet Network

CyberMachine – Mass Storage





The first action is to read data from machine network and stores – **mass storage** – the **machining process data** of the WattPilote, SafePilote, QR Code of the workpiece and sensors connected to the PLC in order to provide a **complete traceability** of the machining.

The huge memory inside Cyber Machine can provide **machining traceability for more than 6 months** without loss of data.

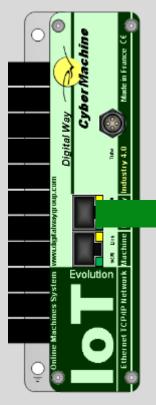
Factory Ethernet Network

For each machining the file (xml format) contains at least:

- Date and time of the machining
- QR code of the workpiece
- Tool number
- Power and vibration curves

CyberMachine - CyberFactory





On the Factory network, the **CyberFactory software** allows to visualize all **management data provided by the CyberMachine**.

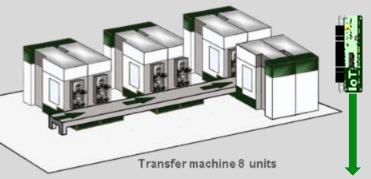
Factory Ethernet Network





CyberMachine - CyberFactory





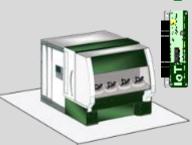
On the Factory network, the **CyberFactory software** allows to visualize all **management** data provided by the **CyberMachine boxes**.



Factory Ethernet Network



Flexible unit



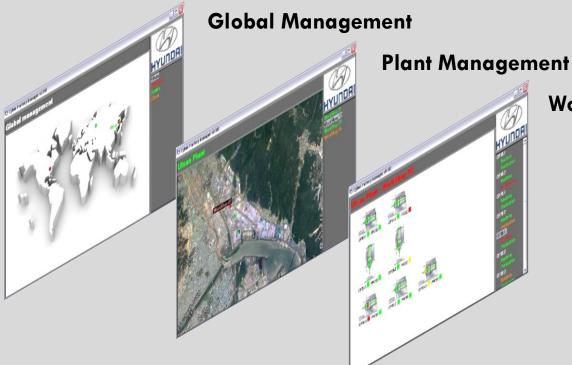
Machining center with 4 spindles



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CyberMachine – Data management visualization

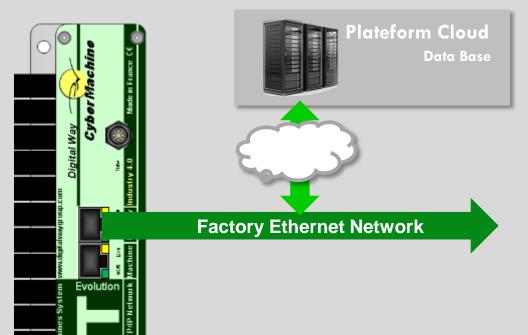
Three levels are available:



WorkShop Management

CyberMachine – Cloud DataBase

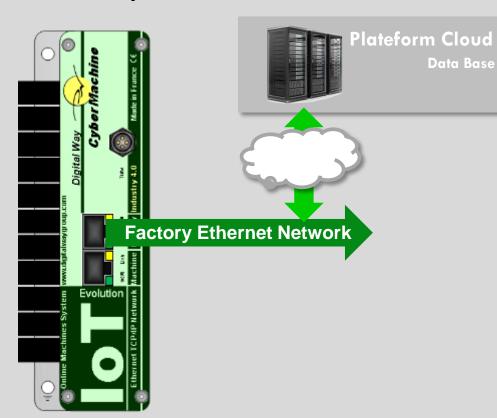




The Cybermachine can also be programmed to transmit all machining data to a cloud or global server.

CyberMachine - DataBase



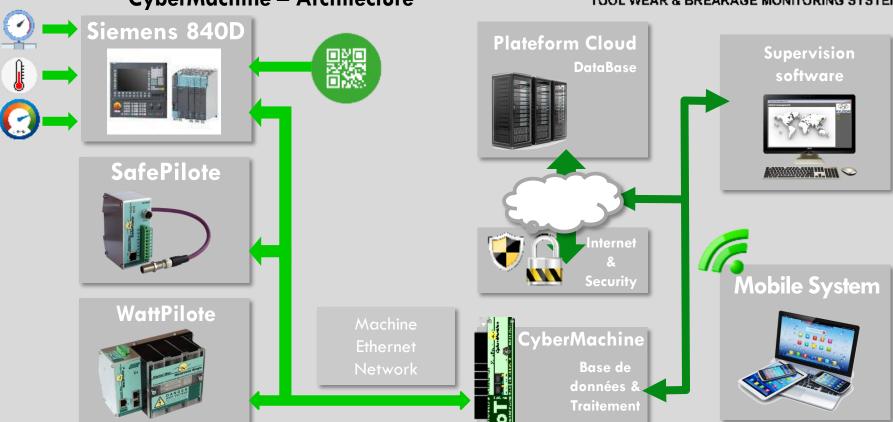




A user connected to the cloud or on the global server can view the data with a Web application of CyberFactory Software.

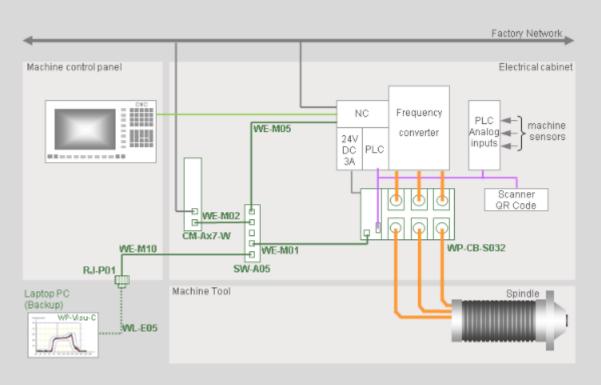
CyberMachine – Architecture





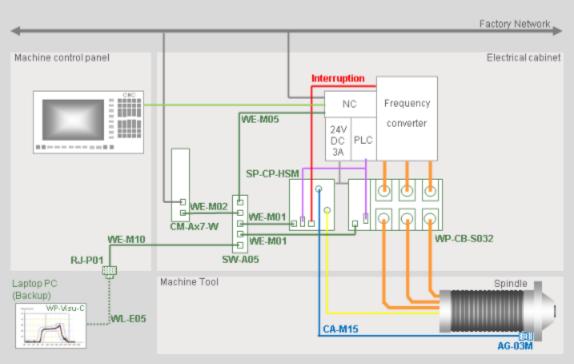
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CyberMachine – Machining center application Connection with WattPilote





CyberMachine – Machining center application
Connection with WattPilote and SafePilote





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