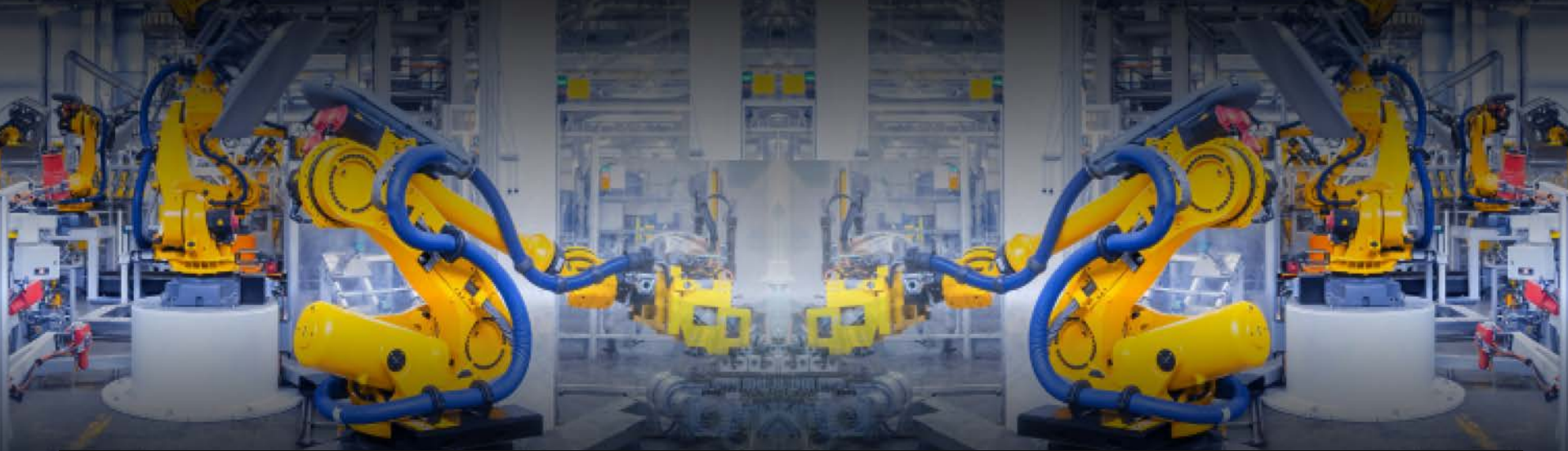





molex
one company ▶ a world of innovator


Molex Industrial Vision



To become a leader in the global industrial market by enabling 4th generation manufacturing and providing high value solutions to our target markets of machine builders, robot manufacturers and factory electrical infrastructure.



Tomorrow
Flexibility
Common Protocol
Cost effectiveness
High efficiency



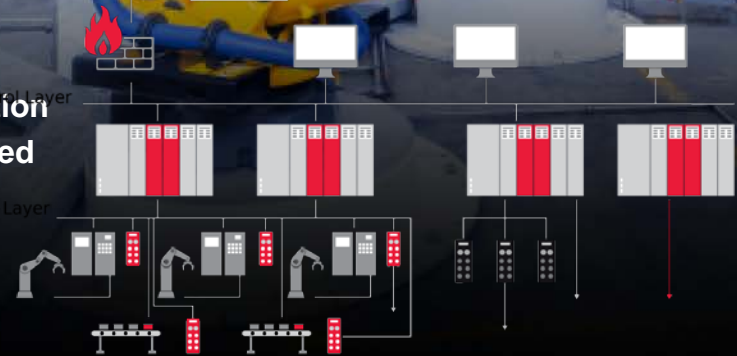
Today
PLC centric
North-South communication
Integrated safety/hardwired
Separated IT and OT
Loose security
No M2M
Limited remote access

Enterprise Layer

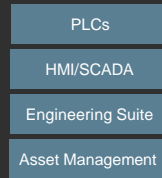
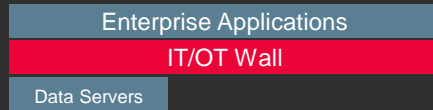
ETHERNET

Control Layer

Field Layer



Traditional Industrial Automation



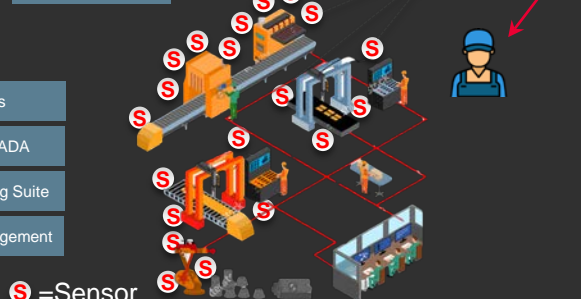
Separated enterprise applications from operations by an IT/OT wall, equipment that are not connected, localized data that can hardly be monetized

What is IAS4.0?

IAS4.0 is an end to end solution from a sensor to a complex device, to an edge, to a service on a cloud comprising of multiple platforms and technologies

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IIoT



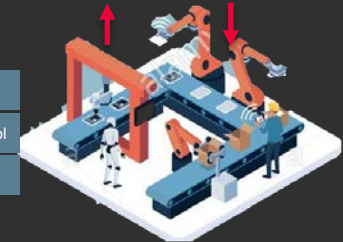
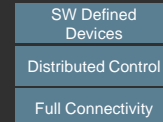
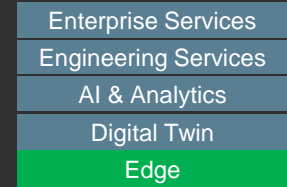
S = Sensor

Adding sensors to read data from equipment and feeding this data to analytics tools through edge gateways, a one-way data acquisition that requires a technician intervention when an action is required

Where does IAS4.0 fit in this evolution?

Although the maximum value of IAS4.0 will be utilized in a digital manufacturing environment, its open and scalable architecture makes it a fit for solutions in traditional systems as well as IIoT

Digital Manufacturing



Fully connected software devices building a cyber-physical system with configuration, programming, AI, analytics, device management and other services running on the cloud, utilizing a digital twin concept for maximum efficiency and optimized yields

How does IAS4.0 compete with incumbents in digital manufacturing?

Molex is teaming up with key automation supply chain manufacturers to enable them to compete in this new market, avoiding any direct competition with incumbents

molex

Industrial Automation Solution 4.0 Standardized Modules

Molex Industrial Automation has developed a highly disruptive hardware/software platform. *IAS4.0* enables the main players in Robotics, Complex Automation Machines, Device/Control systems and Line Building/System Integration in the digital manufacturing era.



IAS4.0



- FAM 20 ▶
- Designed for Device, CNC and Robot manufacturers



- FAM 68 ▶
- Designed for Automation Machine and Line Builders



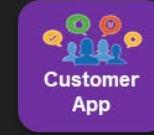
- Cord-sets ▶
- Completes the solution offering for line and Machine Builders



IAS 4.0 ► One Hardware Multiple Choices



- Standard Hardware
- High flexibility
- Apps - Software Download
- Expandable
- Scalable
- Safe
- Secure



IAS4.0: Value Proposition



Flexibility



Lower
TCO



Shorter
Time to Market



Emerging Business
Models



Simplicity



Zero
Down-time

- Cyber-physical, autonomous devices at the core
- Open, modular and scalable solution
- One Automation Suite across multiple platforms

- Lower HW dependency and spare parts
- Higher efficiency and productivity
- Automation Suite as a Service
- Traceability and accessibility

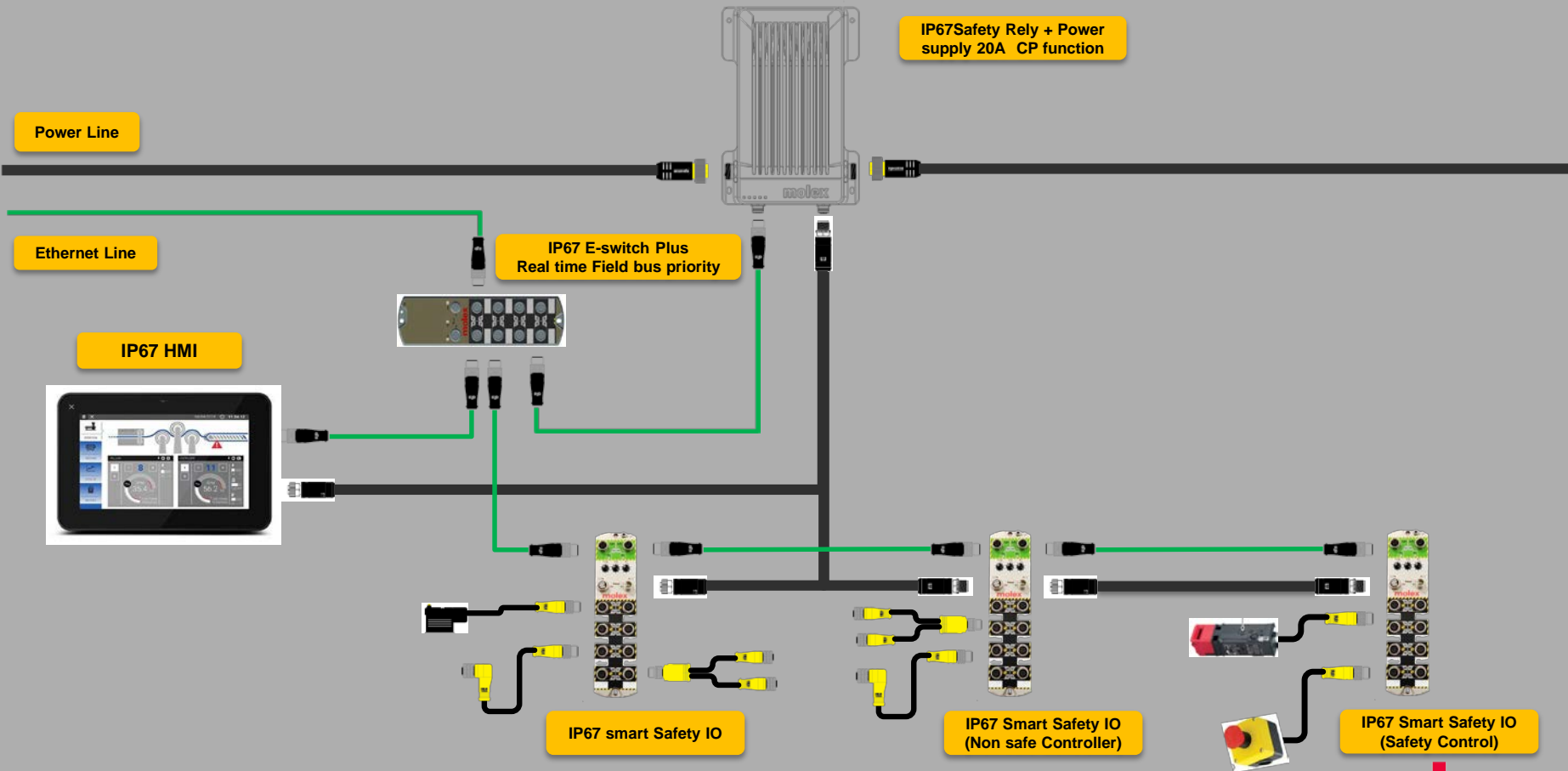
- Pre-certified apps and libraries to use
- Easy to adopt new technologies/integrate other solutions
- Built-in support for safety/security certification

- Enabling machine, robot, line as a service business model

- Simplified and automated processes
- Modern and consistent user experience across all services
- Information models

- Analytics and AI enables proactive maintenance
- Multi-level zero-touch provisioning
- Automated updates and device replacements

Molex (End To End Solution) ► IAS 4.0 - FAM 68 Block, FAM Switch, FAM Safety Power Supply, HMI



Molex Success: Driving Value at Component Level

ArcArrest 60A RPM And Product Line



Ultra Lock 2.0 IEC specified



Power Line for Automation

