

LAYING A FOUNDATION FOR YOUR IT-OT INTEGRATION



BUSINESS CHALLENGES

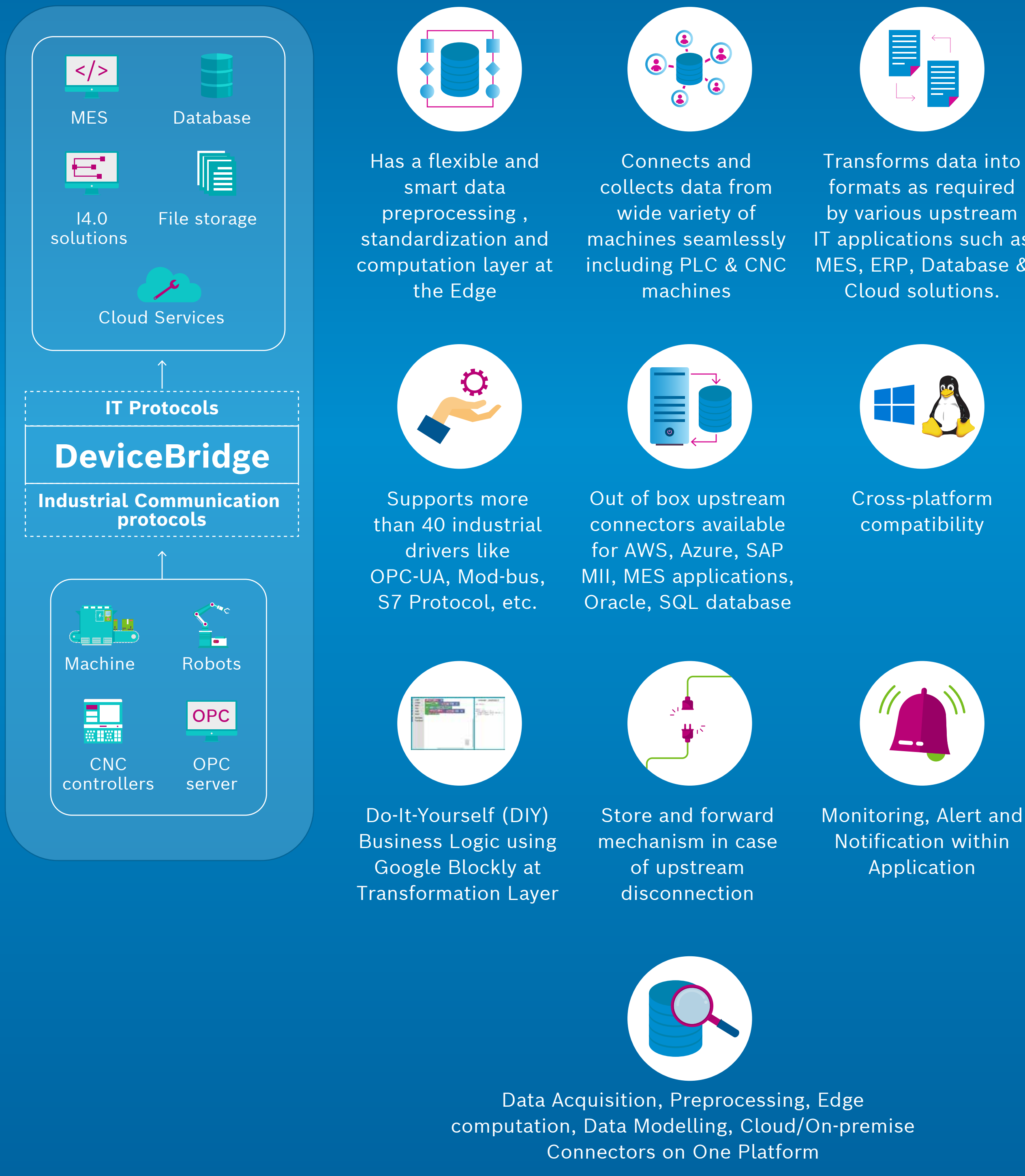
In a typical shop-floor, we have observed manufacturers face:

- Lack of data homogeneity from downstream assets due to disparity of industrial communication protocols
- Inconsistent and unreliable manual data collection
- Lack of singular platform for collecting and managing production data from disparate assets
- Lack of interoperability with upstream IT layer due to differing interface specifications
- Need for data standardization, pre-processing, computation and modeling functionalities at the shop-floor level

SOLUTION

Bosch DeviceBridge connects shop-floor devices with top-floor IT applications with ease

Solution Features



BENEFITS

- Cost reduction by elimination of manual data collection and processing
- Reduction in total cost of ownership due to a single platform offering both data acquisition and data transformation
- Connectivity to legacy machines with minimal or no configuration changes
- Faster decision making due to availability of data in real time
- Provides a foundation block for Industry 4.0 solutions - AI/ML, Data Analytics, condition monitoring, predictive maintenance, Digital Twin, asset performance management

Bosch connects 200+ machines at an automotive OEM plant in Japan

Challenge

Manual data process collection was time-consuming and error-prone

There was a need for data standardization

Solution

Bosch designed and implemented standardized data extraction, device integration across Device and Control Layer

Deployment on Linux Rexroth IoT Gateway

Integrations to Azure cloud for data management and analytics roadmap

Benefits

Seamless end-to-end connectivity

Standardization of data across multiple protocols and operations

A scalable and secure solution for maximum efficiency

