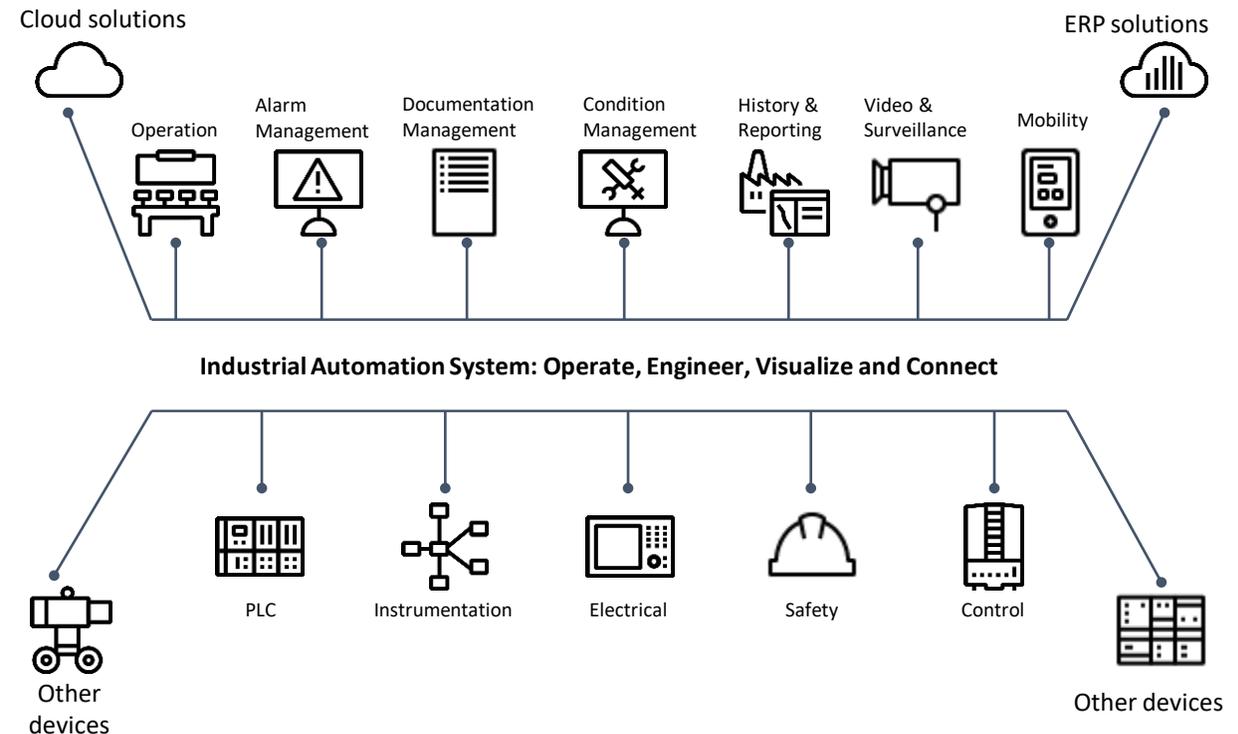# IEEE/IEC 60802 System Remarks
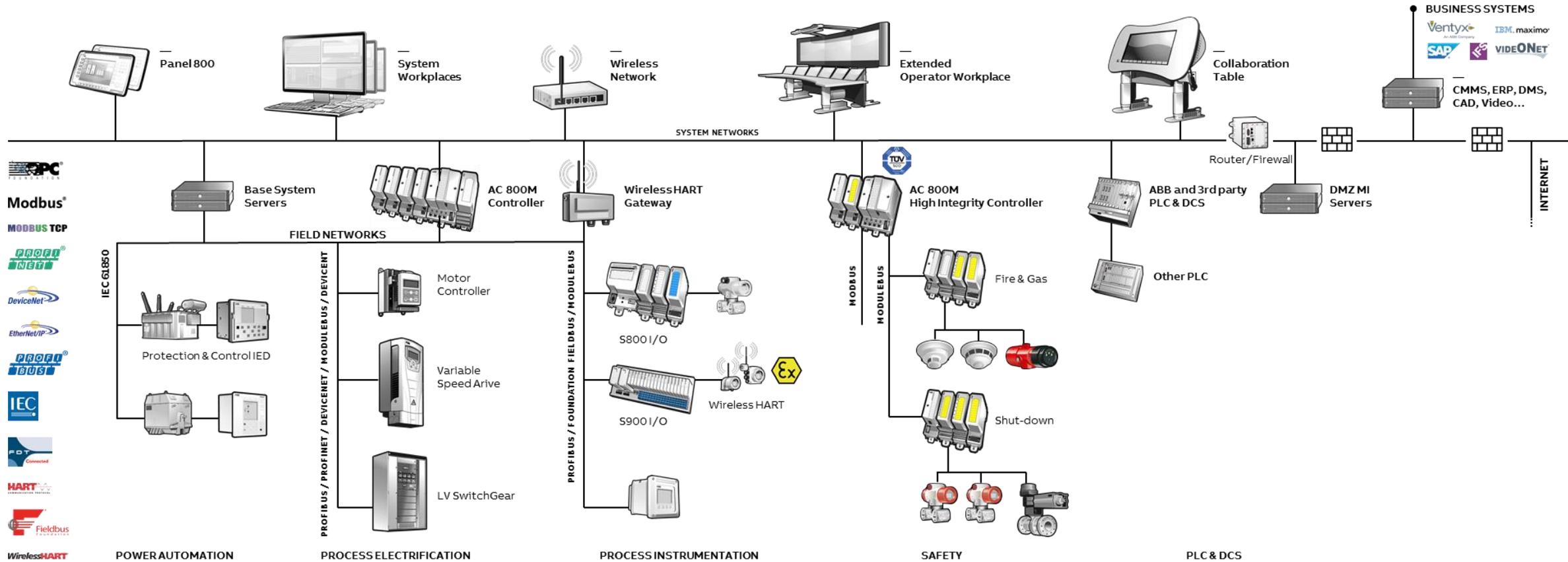
Marius Stanica, ABB

Purpose

- The industrial automation system provides an integration platform with connectivity to plant systems, applications, and fieldbus technologies

- Allows for simultaneous execution of various automation strategies in one common environment

- Includes embedded value added systems and applications providing an effective ownership mechanism

Cloud solutions

ERP solutions

Operation
Alarm Management
Documentation Management
Condition Management
History & Reporting
Video & Surveillance
Mobility

Industrial Automation System: Operate, Engineer, Visualize and Connect

Other devices
PLC
Instrumentation
Electrical
Safety
Control
Other devices

Today's network convergence

Remarks. Starting point today

- We are mixing already today various types of traffic, both IT and OT (incl. CCTV)
- Network management is separate (company-specific or 3rd party possible)
  - Basic IEEE 802.1 QoS management (VLAN domains, multicast domains)
  - Network infrastructure devices monitoring & configuration management
  - Security-settings management
- Network policy though is mixed in network management and in various OT (industrial automation control) management & engineering systems
  - IP addressing (where needed)
  - User management
  - Specific industrial Ethernet fieldbus setup (e.g. station naming)

60802's network convergence.
Possible example
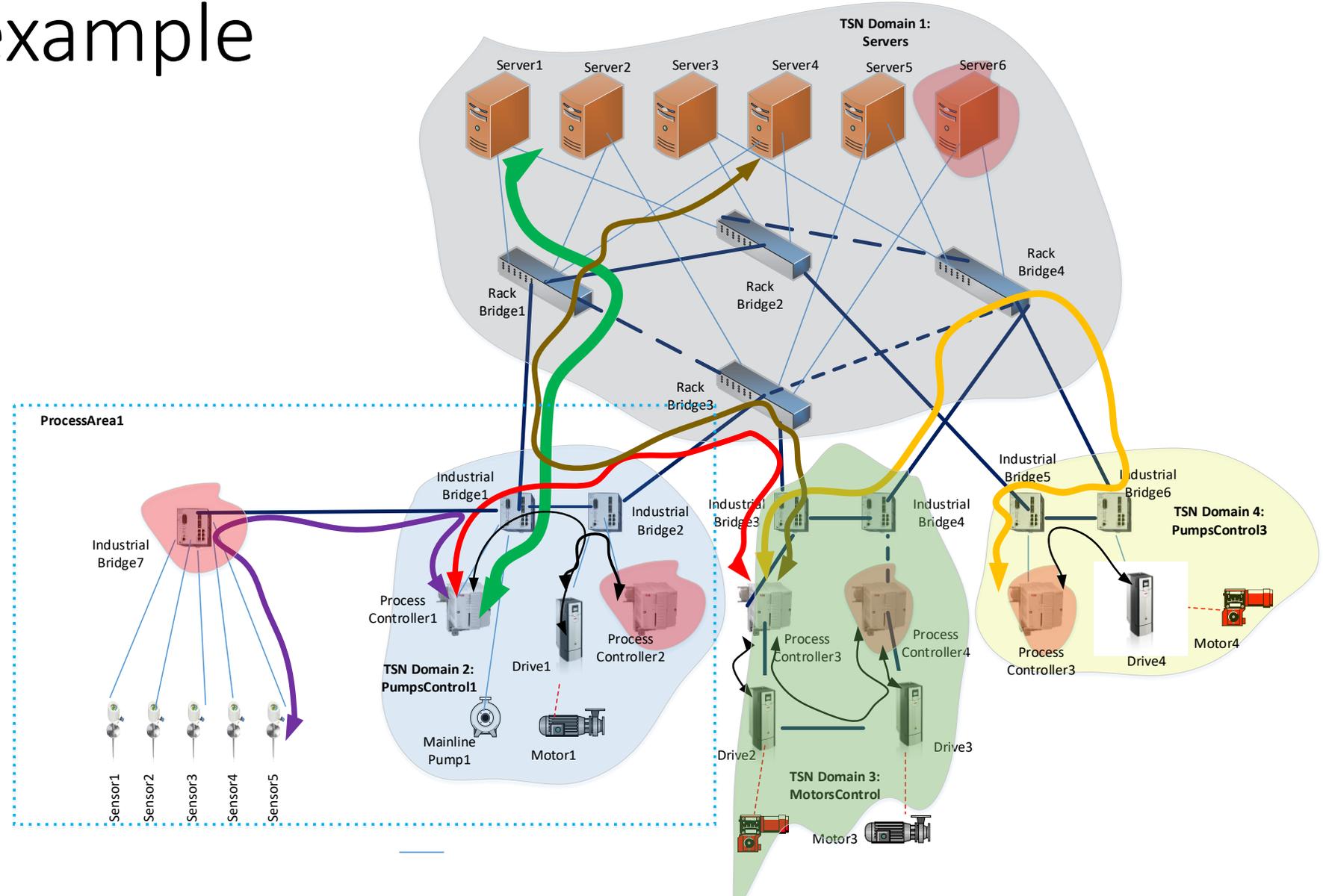
Remarks. Possible future based on 60802

- We will still need to do IT and OT convergence (incl. CCTV)
- We will still need to allow either company-specific, either 3rd party network management systems
  - TSN QoS management & configuration
  - No more „Layer-2" industrial Ethernet fieldbus specific management & configuration – to be replaced by 60802 mechanisms
  - Complete network policy to be supported (incl. IP addressing, security & user management)
- Avoid concentration on industrial Ethernet specific network managers (CNCs, IA-MEs), as this will either bring fragmentation again, either we will take a long time to find agreement for all use cases