Planning for Tomorrow, Today

Paul Anderson, Technical Manager

How should manufacturing trends affect my automation decisions today?









Flexibility



Lot size of one Mass Customization

Flexibility over equipment lifespan



Changing Labor Dynamics





G To the machine, the work of the machine. To man, the thrill of further creation. 55

- Kazuma Tateishi Founder of Omron

Changing Labor Dynamics



Lights out Factory

Audit all human interaction with process Redirect from manual labor to value add creativity Infrastructure to support remote interaction

Three Principles for Automation Decisions

Focus on Machine Performance

Develop Simple Robust Solutions

Always Choose More Data

anited.[1]broo

/ Mode - MDI

11 (Scorell)

A

OMRON INTEGRATED | INTELLIGENT | INTERACTIVE

OMRON INTEGRATED | INTELLIGENT | INTERACTIVE

CPU Design Approach Network Architecture Program and Network Synchronized

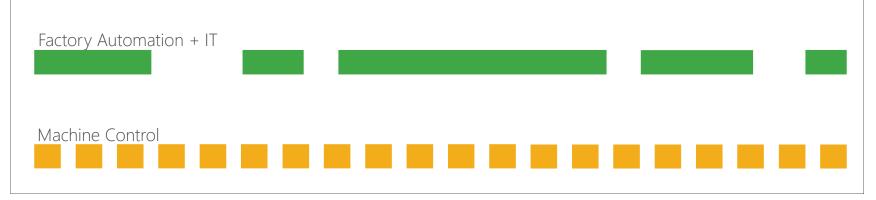


CPU Design Approach Network Architecture Program and Network Synchronized

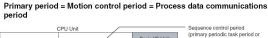


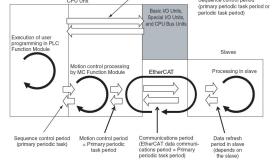
OMRON INTEGRATED | INTELLIGENT | INTERACTIVE

Network Architecture - Communication Needs by Function



CPU Design Approach Network Architecture Program and Network Synchronized

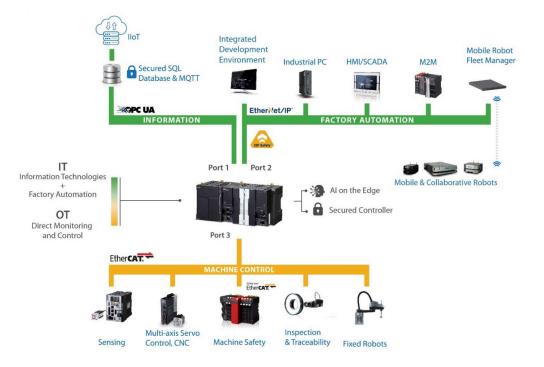




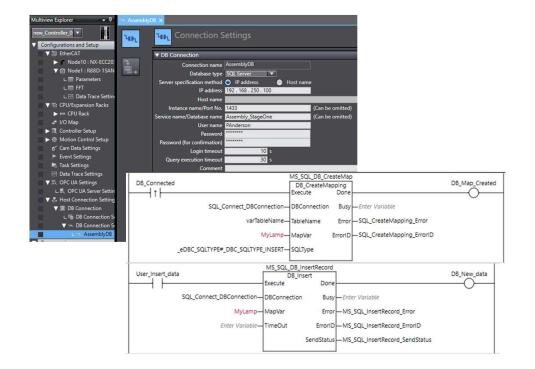
Task Type	Task Name	Period/Execution
Priority-4 Primary Periodic Ta	k PrimaryTask	125us

OMRON INTEGRATED | INTELLIGENT | INTERACTIVE

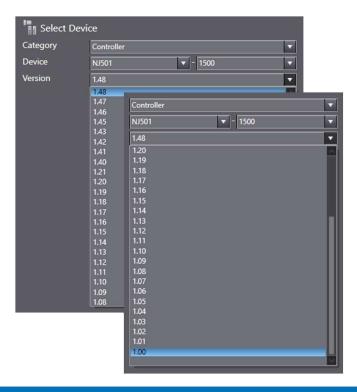
IT/OT Architecture Out-of-the-box Features Backwards Compatibility



IT/OT Architecture Out-of-the-box Features Backwards Compatibility



IT/OT Architecture Out-of-the-box Features Backwards Compatibility



Principles for Automation Decisions Always Choose More Data

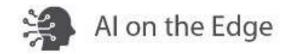
Networked Sensors AI + Edge Computing Bandwidth Mindset



Principles for Automation Decisions Always Choose More Data

Networked Sensors AI + Edge Computing Bandwidth Mindset





OMRON INTEGRATED | INTELLIGENT | INTERACTIVE

Principles for Automation Decisions Always Choose More Data

Networked Sensors AI + Edge Computing Bandwidth Mindset



Three Principles for Automation Decisions

Focus on Machine Performance

Develop Simple Robust Solutions

Always Choose More Data

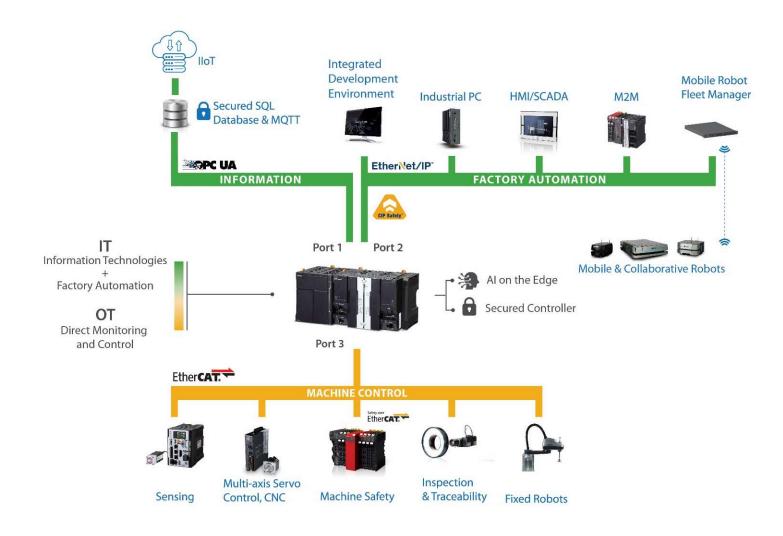
anited.[1]broo

/ Mode - MDI

11 (Scorell)

A

OMRON INTEGRATED | INTELLIGENT | INTERACTIVE



Planning for Tomorrow, Today

Paul Anderson, Technical Manager