

MANUFACTURING

SECURITY ARCHITECTURE

Security architecture for a food manufacturer's factory of the future

A food manufacturer had poured concrete on three new factory of the future facilities after a decade of planning. With threats targeting food manufacturing on the rise, **Optiv Consulting** was brought in for late-stage security work: overlaying a stronger network architecture and modern OT security tooling before the sites went operational.

INDUSTRY	REVENUE	EMPLOYEES	LOCATIONS
Food manufacturing	\$3B	11,000	3 in scope

THE CHALLENGE

The new facilities had to open on schedule, but the design predated current OT security expectations. The client needed security woven through work already delivered by engineering, automation, and construction partners, without disrupting the path to operations.

OUR APPROACH

- Evaluated the design of all three facilities for security flaws.
- Built a risk register to surface issues overlooked by the engineering and construction firm, the automation integrator, and automation vendors.
- Modeled threats and walked each site to ground the assessment in operating reality.
- Defined a strategic OT security roadmap and a stronger CPwE/Purdue architecture.

Zero downtime

Delivered with no interruption to facility operations

BUSINESS RESULTS

- Stitched a common security thread across the work of the client and its third parties.
- Strengthened the CPwE/Purdue model at critical points, including the DMZ and Purdue Layer 2.
- Delivered a roadmap covering OT sensors, SIEM integration, and firewall improvements, with risk reduction the client can measure.