IT & OT: The essential relationship in digital manufacturing

It might seem like Information Technology (IT) and Operational Technology (OT) professionals come from different worlds. But if manufacturers want to achieve the potential of the industrial Internet of Things, these two functions have to work together effectively.

### Misconceptions about IT:

**Confidentiality:** “The most important thing is to keep all of our company’s proprietary data secure. We must avoid a cybersecurity attack at all costs.”

**Integrity:** “We need strict control over our data to avoid errors or tampering.”

**Availability:** “Once we’re confident that everything is secure and accurate, we can get back up and running.”

### Misconceptions about OT:

**Availability:** “The most important thing is to keep everything up and running smoothly. Let’s keep planned downtime to a minimum and eliminate unplanned downtime.”

**Integrity:** “We have to be able to trust the readings we’re getting.”

**Confidentiality:** “Keeping data safe is important, but our proprietary systems are unlikely to be hacked anyway. Security by obscurity!”

Cisco is bringing together these two functions, working to transform manufacturing through new initiatives, including:

- **Predictive Analytics**
- **Fog Computing/Edge Computing**
- **Wireless for the Factory Floor**
- **Innovative Security Approaches**

Together, they’re unlocking the potential of Smart Manufacturing.

Want to learn more?

Explore the White Paper