



# Technology checklist

## A safety & security guide for manufacturing plants



# Table of contents

|  |                   |
|--|-------------------|
| Introduction: creating safer manufacturing ..... | <a href="#">3</a> |
| Security within multi-site plants .....          | <a href="#">4</a> |
| Security at the property perimeter level .....   | <a href="#">5</a> |
| Security at parking lots .....                   | <a href="#">6</a> |
| Security at the plant perimeter level .....      | <a href="#">7</a> |
| Security at the plant interior .....             | <a href="#">8</a> |
| Conclusion.....                                  | <a href="#">9</a> |







# Creating safer manufacturing

Keeping our facilities safe so workers, operators and technicians can focus on production volume and product quality has always been at the top of the list of priorities for manufacturing plants nationwide. With supply chain disruptions over the past few years and reshoring on the rise, having technology that can adapt to your plant's changing operations and processes has never been more important – especially when the same technology can be used to empower your employees in responding to unexpected incidents or emergencies.

Communications and safety technology is evolving to help plants meet these security challenges and ensure that factory workers feel secure and supported at all times. We envision a world where technology works seamlessly together to respond to everyday emergencies while also recognizing patterns, anticipating actions and preventing situations before they escalate into emergencies. At Motorola Solutions, we've made this vision a reality by building a unified and connected technology ecosystem that integrates critical communications, video security, data and analytics on one common operating platform – giving manufacturing plants the systems they need to detect, analyze, communicate and manage unfolding incidents or threats.

The same technology that keeps your workers and plants safe also makes you better at everything you do. These fundamental technologies keep your facility connected and operations efficient – providing the assurance of safety you need so your staff can focus on maintaining high production volumes.

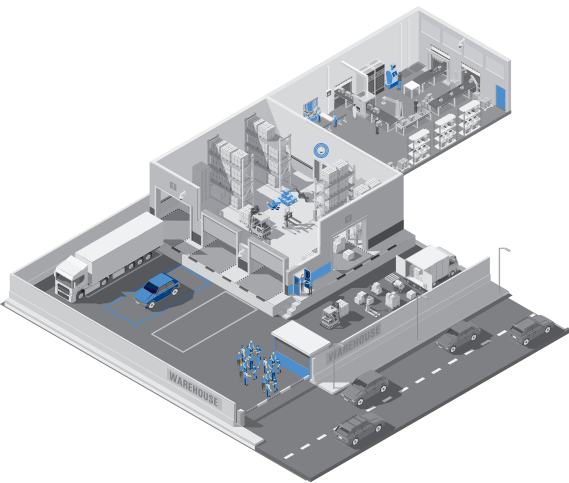
Our Safer Manufacturing integrated safety and security ecosystem helps your plant meet security needs and requirements at all levels, from when an employee parks their vehicle to when they enter the factory floor. Using this checklist, we can explore how Motorola Solutions technology fits into each layer.





# Security at multi-site plants

Technology integration and coordination throughout all facilities is essential to help with increased measures in safety and security of the people needing to access multiple sites.



Plant safety & security elements in manufacturing include:

| RECOMMENDED TECHNOLOGY  | INSTALLED<br>✓ OR ✗ | STATUS /<br>YEAR | NOTES |
|---|---------------------|------------------|-------|
| Truck Drivers - Video Security System                         |                     |                  |       |
| Machine Operators - Communication Devices                     |                     |                  |       |
| Incident Management   |                     |                  |       |
| Mass Notification System                                      |                     |                  |       |
| Emergency Communication System                                |                     |                  |       |
| Two-Way Radio System  |                     |                  |       |
| Cyber-Security  |                     |                  |       |
| Standardized Video Surveillance Cameras and Management System |                     |                  |       |







# Security at the property perimeter

Your facility perimeter begins on all roads leading into and out of your plant and extends to the parking lot. Areas within the perimeter might include parking lots, additional warehouses, material lots, gates and other common outdoor areas that may be used by employees at all times of the day. Your facility's security should begin at the property perimeter to ensure you can detect, analyze, communicate and manage unfolding incidents or potential threats before they reach a heightened level of escalation.

Plant perimeter safety & security elements include:

| RECOMMENDED TECHNOLOGY   | INSTALLED<br>✓ OR ✗ | STATUS /<br>YEAR | NOTES |
|--|---------------------|------------------|-------|
| License Plate Recognition  |                     |                  |       |
| Two-Way Radio System   |                     |                  |       |
| Gates with Electronic Card Access  |                     |                  |       |
| Video Surveillance Cameras   |                     |                  |       |
| Virtual Video Surveillance Fence - Banned Individual Lists via Analytic Facial Recognition |                     |                  |       |





# Security at the parking lots

Many activities can be occurring at any given time in a parking lot - from employees arriving for their shifts early in the morning to departing late at night. This highly trafficked area should be monitored for common safety issues including theft, car accidents, suspicious activity, vandalism and more. Knowing who should (and shouldn't) be in your parking lot is a valuable component of your safety and security strategy.

Parking lot safety & security elements include:

| RECOMMENDED TECHNOLOGY   | INSTALLED<br>✓ OR ✗ | STATUS / YEAR | NOTES |
|--|---------------------|---------------|-------|
| License Plate Recognition  |                     |               |       |
| Video Surveillance Cameras   |                     |               |       |
| Advanced Video Analytics<br>i.e., object recognition, unusual motion detection |                     |               |       |







# Security at the plant perimeter

The plant perimeter includes the entire exterior of the building and all entrances and exits. Key security functions take place at this level and can range from simple to complex depending on the layout and vast areas between buildings and doors.

Plant perimeter safety & security elements include:

| RECOMMENDED TECHNOLOGY  | INSTALLED<br>✓ OR ✗ | STATUS / YEAR | NOTES |
|---|---------------------|---------------|-------|
| Access Control  |                     |               |       |
| Weapons Detection   |                     |               |       |
| Video Surveillance Cameras  |                     |               |       |
| Advanced Video Analytics<br>i.e., door position, unusual motion detection |                     |               |       |
| Two way radios  |                     |               |       |



## MOTOTRBO R7 Two-Way Radios

Ensure your security and staff can always hear and be heard with MOTOTRBO R7 two-way radios, a game-changing radio with superior audio capabilities in a rugged, future-ready device.





# Security within the plant

Your plant’s interior includes spaces ranging from a reception desk, storage closets, staircases, meeting and training rooms, large hallways to the plant floor, security operations center, and so much more. These areas are commonly the last layer of protection and defense against external threats but also the first layer of protection against internal threats to other employees.

Plant interior safety & security elements include:

| RECOMMENDED TECHNOLOGY  | INSTALLED<br>✓ OR ✗ | STATUS / YEAR | NOTES |
|---|---------------------|---------------|-------|
| Video Surveillance Cameras  |                     |               |       |
| Advanced Video Analytics<br>i.e., door position, unusual motion detection |                     |               |       |
| Gunshot detection   |                     |               |       |
| Fire Alarms   |                     |               |       |
| Smoke Detectors   |                     |               |       |
| Duress/Panic Buttons  |                     |               |       |
| Mass Notification   |                     |               |       |
| Access Control  |                     |               |       |
| Body-Worn Cameras   |                     |               |       |
| Two-Way Radios  |                     |               |       |



## Body cameras in manufacturing

Gain real footage of heavy machinery use or emergency situations with VB400 body cameras that allow you to capture video and voice of a situation providing you with accurate and undeniable footage of incidents that occur while your plant is operating.







# Take your plant's safety to the next level

Using technology to aid in driving increased efficiency and performance can also help in delivering a safe and secure plant for your employees. By bringing together the technologies and solutions you need to detect, analyze, communicate and manage, Motorola Solutions' fully integrated safety and security technology ecosystem is helping you achieve Safer Manufacturing.

Learn about how Motorola Solutions can help your plant check off these critical safety technologies at your facility.

[Explore the Safer Manufacturing Ecosystem](#)



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