

This was the first version of the scope that was sent to the SME and the Assistant Director of Information, Communication, and Technology of a pharmaceutical end-client. Their feedback contributed to further alignment.

Created - 2026

I. PURPOSE

1. The purpose of this Standard Operating Procedure (SOP) is to establish a governance framework for the design, implementation, and management of IT and OT network segmentation controls to enforce secure separation between environments.
2. This SOP ensures that segmentation controls are implemented and maintained to limit unauthorized communications, reduce cybersecurity risk, and support compliance with regulatory and cyber security requirements.

II. SCOPE

1. This SOP applies to all IT and OT systems, networks and infrastructure within the site where segmentation controls are required.
2. Within scope of this SOP includes the following:
 - i. Network segmentation infrastructure that is within alignment with the Purdue Model.
 - ii. Virtual Local Area Network (VLAN) configuration
 - iii. Designing and enforcing firewalls
 - iv. Implementing the Access Control List
 - v. Monitoring and maintenance of segmentation controls
 - vi. Managing communication pathways between IT and OT environments.
3. This SOP applies to systems and users who support IT and OT operations, infrastructure that enables communication between network zones, and personnel and third-party service providers who are responsible for implementing and managing controls.
4. This SOP governs tasks and activities that are necessary for enforcing secure boundaries between IT and OT environments, reducing the risk of unauthorized communications across environments, maintaining the integrity and security of data and systems, and ensuring alignment with regulatory and cybersecurity standards.