

# DISCOVER A SOLUTION

Efortech Magazine - Industry 4.0



## Plug & Play

Plug and Play Technology  
with Faster and Easy  
Development



## Integrated

Support to Integrate with  
Existing Systems or  
Machines



## Easy Customization

Web-based Dashboard with  
Easy Customization  
Free Client

*Digital transformation may aid in the  
advancement of your manufacturing processes.*

**EFORTECH SOLUTIONS.COM**



# Pharmaceutical Industry Optimization: Efficiency and Security through Cloud Technology

The pharmaceutical industry has taken significant strides towards digital transformation to enhance operational efficiency and quality. In efforts to modernize operations, digitalization becomes key to meeting the demands of an increasingly stringent and complex market. However, alongside the benefits of digitalization, critical issues also emerge that need careful handling. Focusing on the production of infusion solutions, pharmaceutical companies are tackling these challenges by identifying and addressing barriers in their technology infrastructure. In this article, we will explore the strategic steps taken by pharmaceutical companies to optimize operational efficiency and security through digitalization, as well as how these efforts integrate with cloud computing technology and SCADA-PLC integration.

## Critical Issues and Solutions

### 1. Lack of Effective Backup System:

The absence of an effective backup system poses significant risks to operational continuity. The solution is to implement a backup system capable of securely storing production data and recipes.

### 2. Inadequate Server and Client Performance:

The performance and speed of the current servers and clients do not meet the required standards. The solution is to replace outdated servers with advanced industrial-grade servers to enhance operational efficiency and responsiveness.



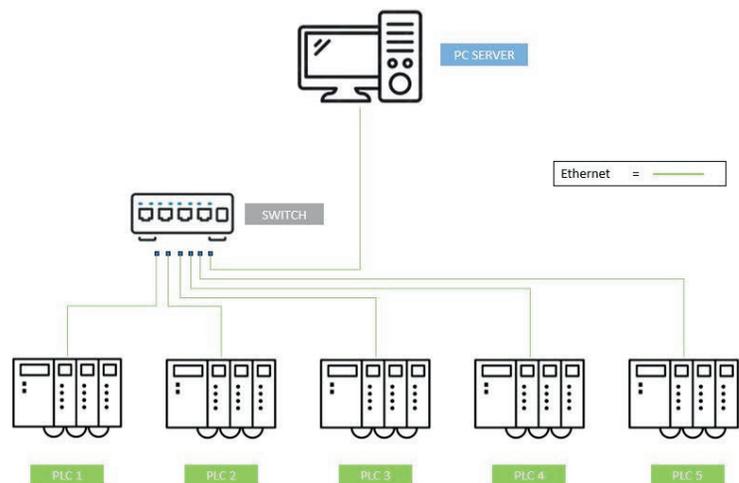
## Implementation Strategy

### 1. Migration of SCADA and PLC to New Server:

Migrating the SCADA and PLC systems to a more advanced server will enhance performance and provide a more stable platform for continuous operations.

### 2. Recipe Development and Integration:

Redeveloping and integrating recipes into the new system will improve efficiency and compliance in pharmaceutical production processes.



## Integration of PLC and SCADA

The integration of PLC and SCADA enables effective monitoring and control of pharmaceutical production processes, as well as facilitates efficient recipe configuration and management.

## Additional Steps for Further Efficiency

- 1. Strengthening Local Support:** Enhancing the local support team to address technical issues quickly and efficiently.
- 2. Utilization of Centralized Data:** Providing training to users to effectively utilize centralized data.
- 3. Improvement of Backup Systems and Recipes:** Conducting routine testing of backup and recovery systems.
- 4. Reduction of Paper Usage:** Encouraging the use of digital systems for reporting and storing data.
- 5. Work Optimization and Effectiveness:** Adopting best practices to enhance productivity and quality.

## Conclusion

By implementing these steps, pharmaceutical companies will be able to enhance efficiency, reliability, and operational effectiveness in the production of infusion solutions. This will also provide a solid foundation for growth in the competitive pharmaceutical industry. In facing modern challenges, digitalization is the key to the sustainability and advancement of the pharmaceutical industry.



## Surabaya Office

Rungkut Megah Raya H-29,  
Jl. Raya Kalirungkut No. 5,  
Surabaya 60293 - Indonesia



## Bandung Office

Komplek Istana Mekarwangi,  
Jl. Mekar Utama No. 18,  
Bandung 40237 - Indonesia



## Jakarta Office

Plaza Aminta Lantai 6 / 602,  
Jl. Tol Tahi Bonar Simatupang No.10,  
Jakarta Selatan 12310 - Indonesia



*Your Digital Transformation Partner*