# White Paper: Enhancing Security with ID Readers and HMIs

Enhance security using an ID Reader and HMI or IPC to provide an overall secure solution to manage access to sensitive locations and machine operations. You can build a simple, yet flexible combination of hardware and software that creates a robust application to track and manages access to different machines, or areas of a facility. It can also provide secure access to specific applications on machines, so only those certified to edit or run programs are given approval to do so.

Being able to manage machine security is increasingly important throughout the 21st century. It is vital to keep employees, assets, and customers safe. Locking and unlocking panels with a physical key is common practice but can also be cumbersome and insecure. Keys get lost and broken and are easily passed from one person to another. They also don't provide reliable tracking of those who use the equipment. Passwords or key code entry can also be inconsistent and insecure. It is easy for others to steal and use passwords or key codes for inappropriate access, or people can pass along the data to co-workers without consideration for the potential risks. Using an ID Reader connected to an HMI or IPC allows organizations to monitor activity on different machines and limits access based on a user's level of security. This is a simple solution to an important and sometimes complex problem.

Over the years, the potential for a security breach on the operations floor has become more prevalent. The need to track access and determine where a potential error may have taken place is a necessity to manage good business. Businesses must be able to protect their employees, intellectual properties, and machine operations. Although technology continually changes and advances, ID cards, whether a physical card or an APP on your smart phone, is still one of the most effective ways to manage security in these scenarios. All a company needs are a few simple pieces. Some of which are already being used on the plant floor.
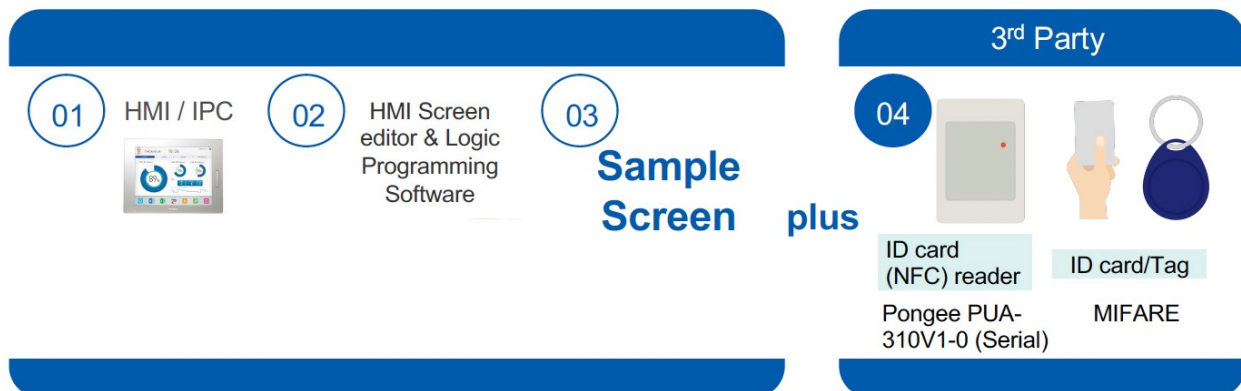
Solution
This solution can protect all a company's assets by using an HMI or IPC with development software that connects to an ID Card application. This simple solution allows for flexibility, giving the programmer the ability to define specific areas of access as well as add and remove contacts easily. Data is collected using data management software that can parse, report, and sort information as needed for future analytics and trouble shooting.

Conclusion
Overall, security is a major concern for all of us. Companies continually look for ways to control their environment and providing appropriate access to their machines. Employees should be able to follow proper protocol while maintaining the highest level of security.