



## **ILS Technology**

### ***Client Need***

ILS Technology, a Park-Ohio Company, provides secure interfaces to industrial equipment and factory controllers across multiple industries. ILS's data extraction, data translation, and remote connectivity solutions enable secure collaboration throughout the production process without the need for the manufacturer to customize or replace existing systems. ILS needed to prepare their security system for commercial release, heightening the need for enhanced performance and reliability, and calling for design improvements. In addition, the need for a competitive edge called for the system to support an emerging communication standard, developed by ILS in conjunction with the U.S. National Institute of Standards and Technology (NIST).

### ***Inflection Point Solution***

Acting as product development consultants, Inflection Point Systems identified customer needs and defined system requirements, devised the architecture using cases and modeling, selected the necessary proprietary and open source tools, then rapidly built, tested, and deployed the new system. At the heart of the solution is a servlet application that processes requests and communicates them to a rules engine, which builds in security at the operational level. At the database level, a GUI enables the definition of rules and their synchronization to the database used by the rules engine, enabling successful consideration of all specified criteria in managing the access request. Inflection Point used several open-source tools, including JBoss MQ and Tomcat, along with web services and several XML technologies to conceive and complete development of ILS's new standard, Interface A.

### ***Outcome***

After months of delays due to offshore service providers, Inflection Point's product development expertise and its nearshoring capabilities enabled ILS to rapidly complete its Interface A implementation—a standard that has firmly established ILS as secure manufacturing pioneers and market leaders in the Semiconductor manufacturing space. Inflection Point's ability to contribute from the early stages of customer needs identification and requirements definition through architecture to implementation, testing, and deployment, allowed ILS to efficiently deliver its new market standard. By nearshoring to the U.S. Central Time Zone instead of sending its work offshore, ILS realized the benefits of rapid response and real-time development collaboration plus the overhead reductions that accompany it.

Inflection also provided ILS with R&D and testing support for its core eCentre product and worked collaboratively with them on other efforts that benefited from Inflection Point's value-producing nearshoring capabilities.