# ABSTRACTS

The growth of automation technology in manufacturing companies demanding to always developt an automation technology that made system better than before. For now, the development usually on part of production that to simplify controlling proses and monitoring ongoing process production. However, on the other hand the management side also need a technology development in automation that can assist in accelerating to get information from ongoing process especially a real time information. The development of technology refferd to SCADA (*Supervisory Control And Data Acquisition*) by utilizing with *Active Factory* and *Generic Data Grid.*

SCADA is system that integrate with controlling and monitoring system and database in a production process. While, *Active Factory* is client software for *Wonderware's Intouch* that designed to help convert large amount of production process data both historical and real time into information that ready to use by company management. InSQL is historian software that used as a connection between *Active Factory* with *Wonderware Intouch*.

At this research will be focused in the development of automation of production reporting process by using *Custom Query* method and utilizing of *Active Factory* and *Generic Data Grid* on SCADA for process data quickly, effectively, and efficiently.

From the results of this study concluded, using a *Custom Query* method that utilizes *Active Factory* and *Generic Data Grid* has been successfully designed production reporting process within the SCADA system. And for futher research, can be done using *Active Factory* research by providing integrated online reporting using a website.

Keywords: Automation, SCADA, *Active Factory*, *Generic Data Grid*, Report and Tagname.