



Michelin Tire uses OPC Systems.NET for HMI, trending, data logging, alarm logging, and recipe management in their manufacturing facilities all over the world. They utilize the advantage of 100% management components to deploy their applications as Smart Clients. To provide global communications to each facility they use the Internet for communications.

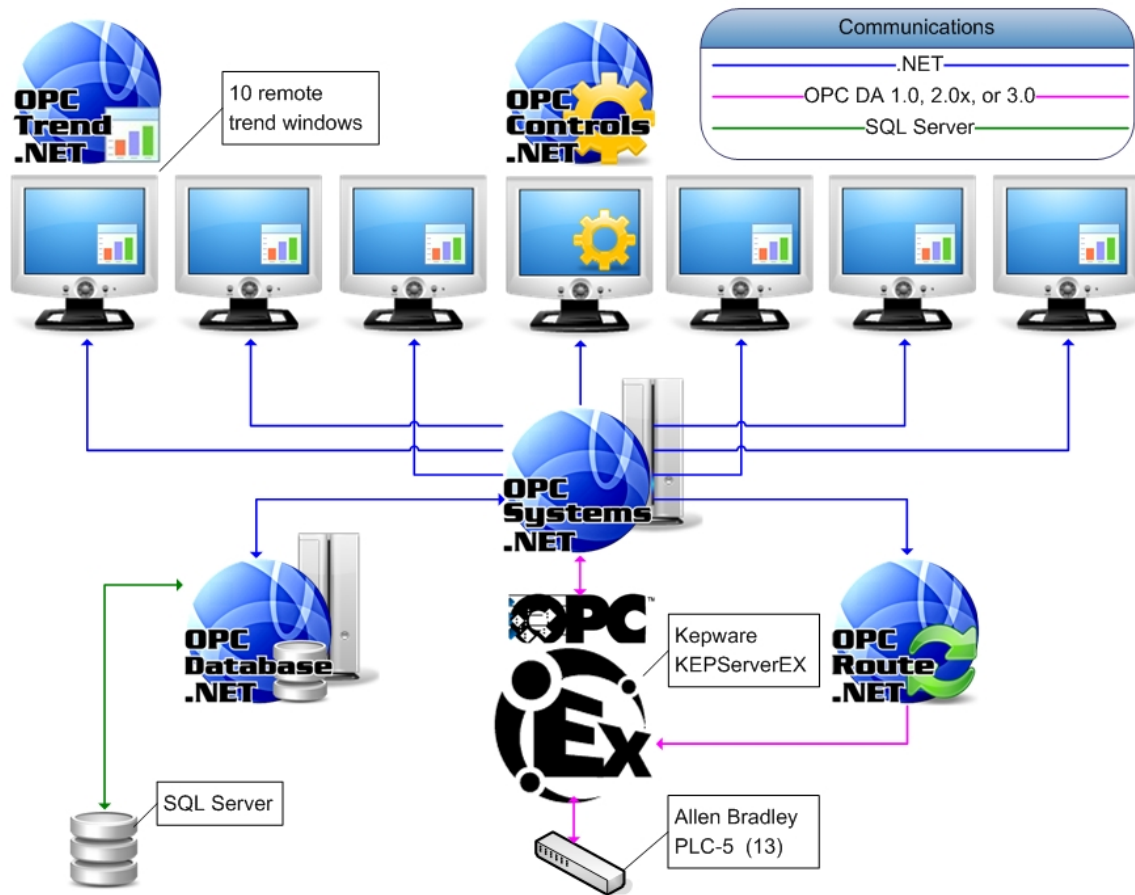
Michelin Tire in Sandy Springs South Carolina is just one of their production facilities that manufacture rubber compounds for use in its tire manufacturing plants throughout North America. This facility maintains the highest quality of standards and is listed by the U.S. Environmental Protection Agency as a Performance Track member. Michelin Tire has implemented OPC Systems.NET throughout their manufacturing plant to provide real-time and historical information for operators and production management. OPC Systems.NET was chosen for the ease of networking without the need for DCOM, and the reliable performance to log process and alarm data with no data loss.

Michelin Tire uses OPC Systems.NET on the rubber compound mixing system to monitor and log process and production data. Each mixing machine's cycle and efficiency data is monitored for analysis along with process data such as temperature and energy usage.

Stephen Smith, an automation engineer for Michelin Tire, has implemented OPC Database.NET for data logging, OPC Trend.NET for real-time and historical trending, OPC Controls.NET for real-time display, and OPC Route.NET for data verification back to PLCs through an OPC Server. Stephen describes their application, *"We log to 36 different tables in a remote SQL Server node from our rubber compound production. This data is then displayed through our company's web application for production analysis. We use the OPC Systems HMI container with OPC Trend.NET to display data on 10 to 12 remote systems for real-time charting and historical data."* The same central OPC Systems.NET system also logs data to CSV files for easy history files. Stephen has also implemented a second OPC Systems.NET Windows Service to log data to CSV files containing process temperature and energy consumption data.

OPC Systems.NET communicates to 13 Allen Bradley PLC-5s through Kepware's KEPServerEX OPC Server. This data is then made available through .NET communications to the client applications to log and view the data. The configuration can be modified locally or remotely. Stephen utilizes the CSV import feature to setup the tags and data logging configurations.

Michelin Tire Mixing System



OPC Database.NET is used to log data to a remote SQL Server system. Data will be buffered if there is a network failure or if the SQL Server database engine is stopped, so there is no loss in data as long as the local OPC Server can communicate with the PLCs. *“The automatic database management makes the setup and support of the SQL Server database easy.”* Stephen notes. *“Historical query feature in OPC Trend.NET is nice for bringing up archived data”*

“We really like the ability to centralize all data in the OPC Systems Service to provide data to our remote terminals”

Stephen Smith automation engineer for Michelin Tire.



For more information on OPC Systems.NET and to download a free 30 day evaluation visit

www.opcsystems.com.

Visit our Sales page to find a representative near you.

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