



A Rockwell Automation Company

Schuller International Shop Floor Data Collection

The Client:

Schuller International's Defiance 8 Facility is a wholly owned subsidiary of the Manville Corporation that manufactures fiberglass insulation used in appliances

and automobiles. The facility consists of six manufacturing lines responsible for a very complex product mix.

The Requirement:

The Defiance 8 Facility needed to analyze their production from a *"how well did it do"* and a *"how much did it cost"* aspect. This production and financial information needed to be displayed in real-time whenever possible and reported immediately after the production run was complete, enabling the finance department to keep a close eye on their key profit indicators.

In addition, process information needed to be displayed to the operators as well as production supervision in a format that was easy to understand yet flexible enough so that it could be brought into a

spreadsheet for greater ad-hoc analysis.

The system needed to be installed slowly, minimizing disruption to operators, production supervision, and plant level computer support.

The system needed to support the existing plant level database as well as the future plant level database (Advanced Revelation).

The system needed to work with the existing Ethernet, Novell, and Allen-Bradley equipment.

The Design Solution:

The client conducted extensive interviews with users of the system including the plant manager, production manager, plant finance, division finance, industrial engineering, plant engineering, quality control and machine chief. The outcome of those interviews was a series of user views that allowed a system to be designed satisfying the needs of each user.

The client also studied the data flow within the organization, focusing on the flow of information from the production process to the production department. Complete sets of Data Flow Diagrams (DFDs) were created utilizing a CASE tool. With these DFDs users "bought into" the proposed information flow.

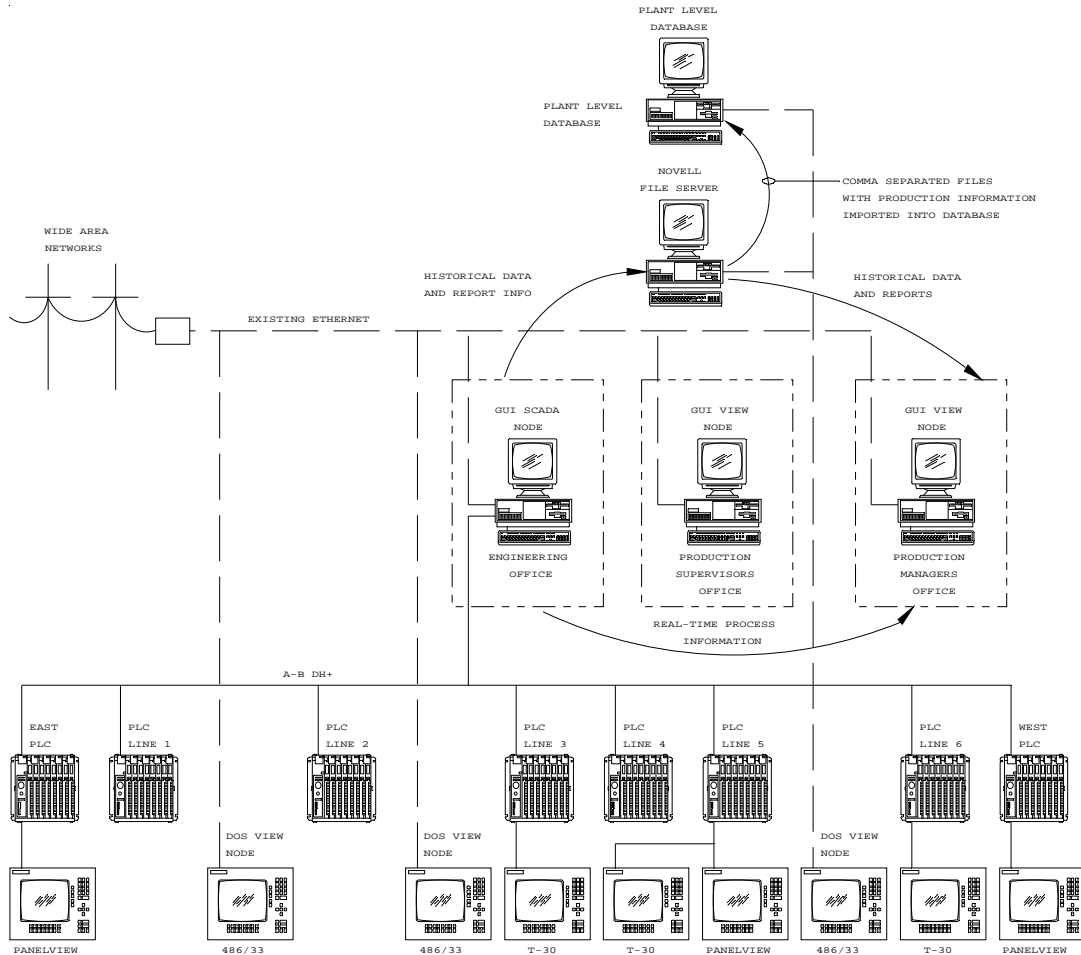
The output from this CASE tool and the user views were integrated into a Functional Requirements Document (FRD) that detailed the needs of the system, served as a vehicle for funding and provided a preliminary training package.

The design of the system centered around an Intellution DMACS SCADA server supplying distributed view nodes with real time information and a Novell fileserver used to store historical information.



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System Specifications:

- Intellution DMACS GUI SCADA Node
- DMACS DOS View Nodes in Hardened PC on the Plant Floor
- DMACS GUI View Nodes for Production Supervision
- Novell/Ethernet LAN
- System Architect CASE Tool
- Allen-Bradley Data Highway Plus

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com